

# MANUFACTURERS' RECORD

A Weekly Southern Industrial and Hardware Newspaper.

Vol. XI. No. 23.  
WEEKLY.

BALTIMORE, JULY 16, 1887.

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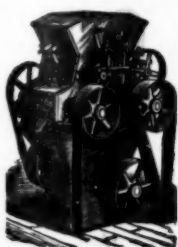
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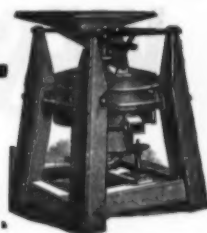
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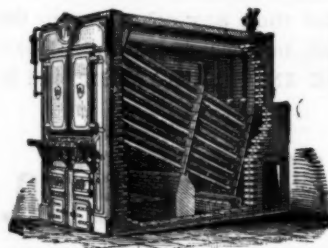
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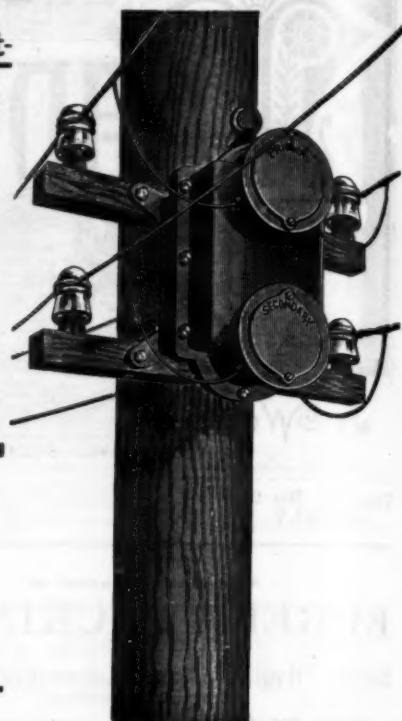
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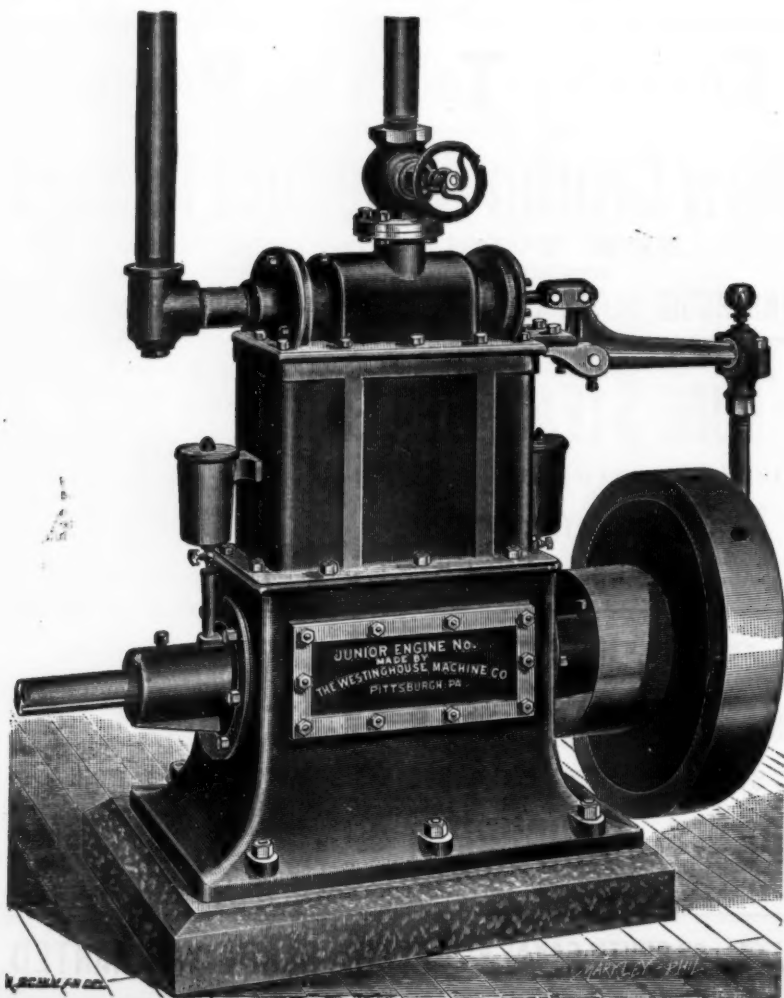
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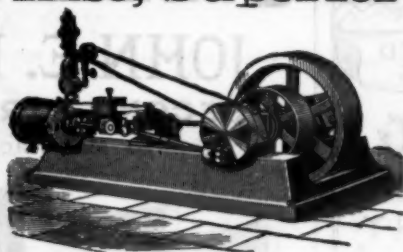
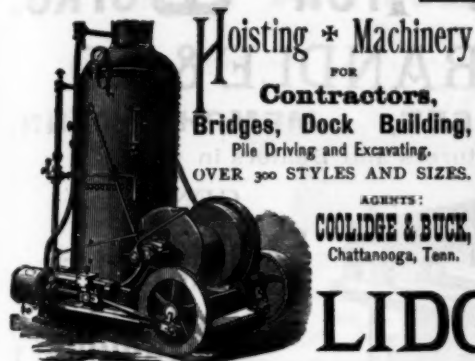
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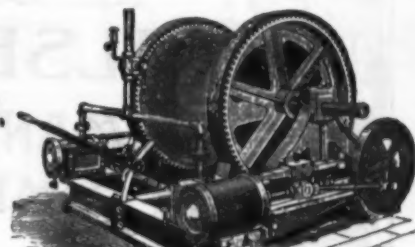


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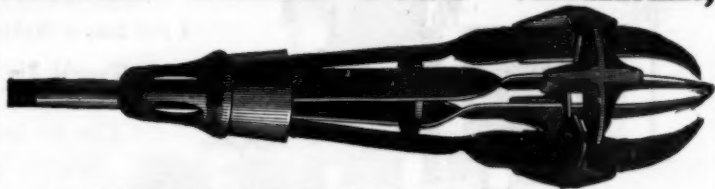
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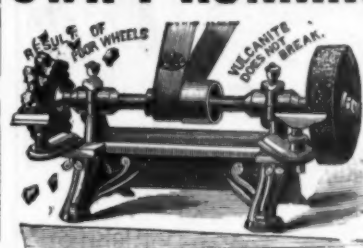
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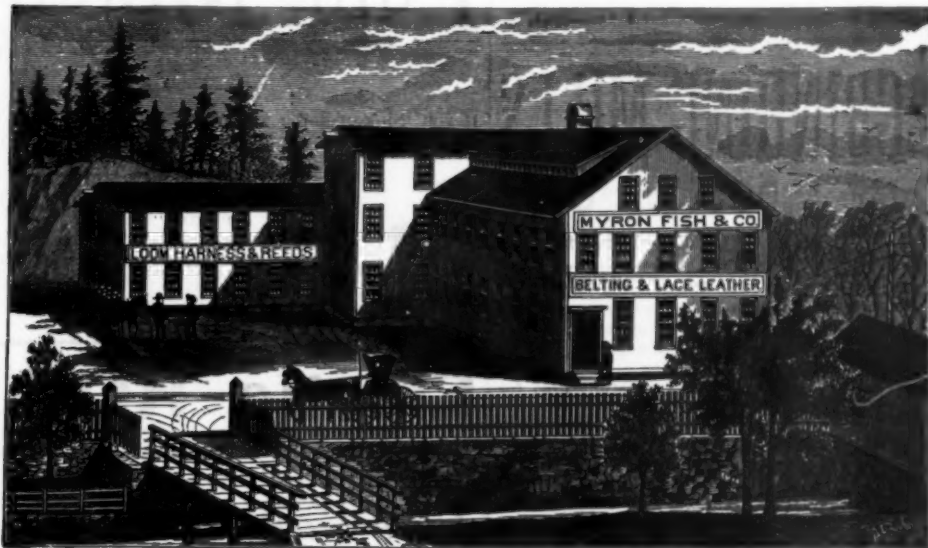
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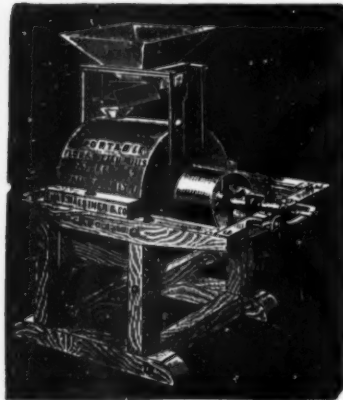
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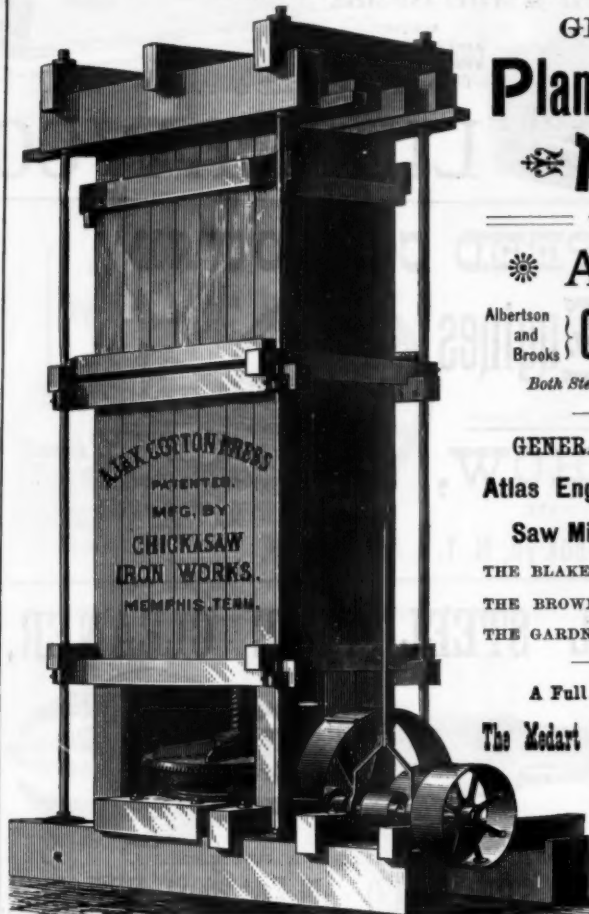
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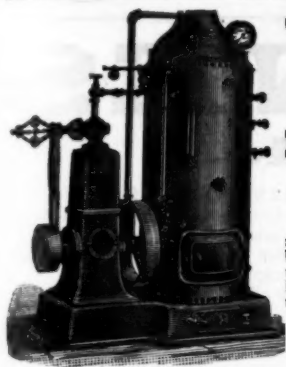


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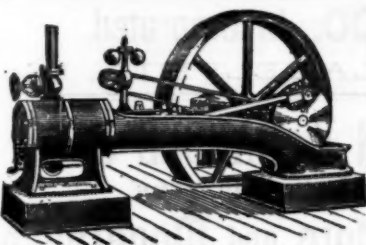
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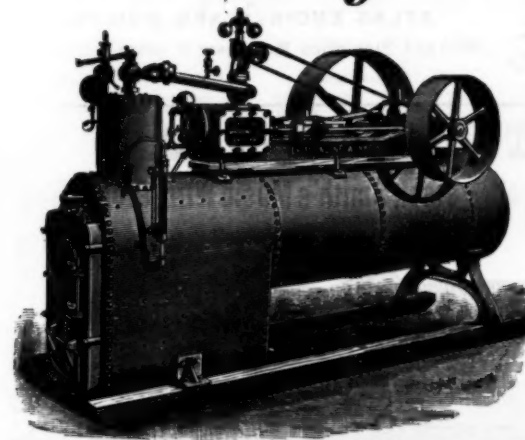
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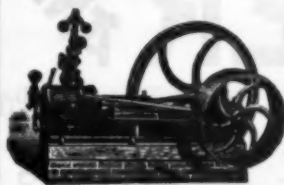
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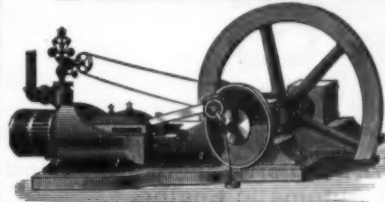
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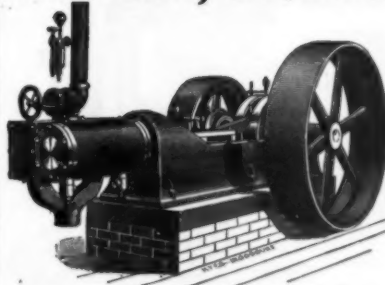
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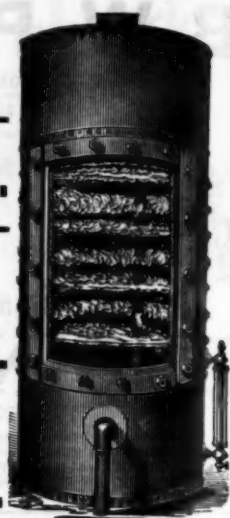
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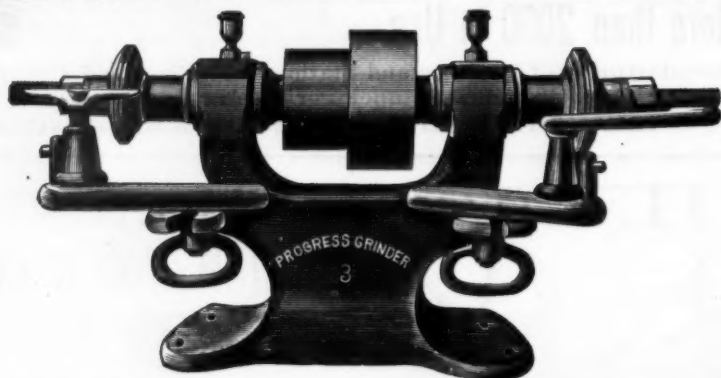
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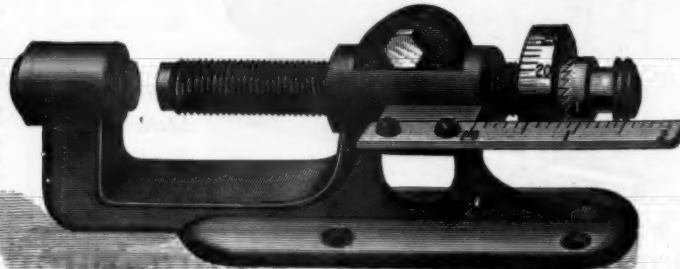
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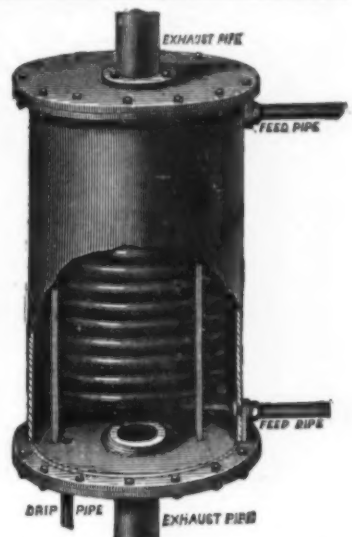
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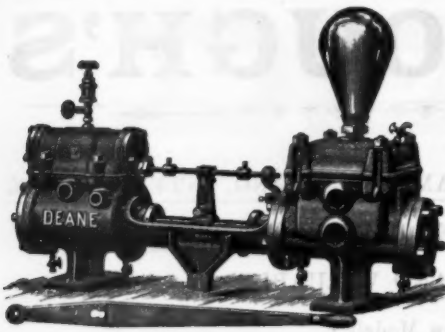
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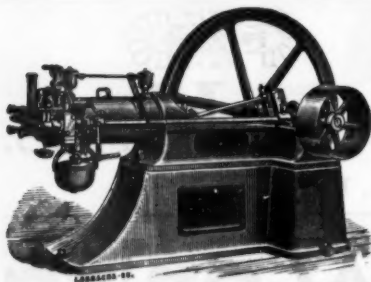
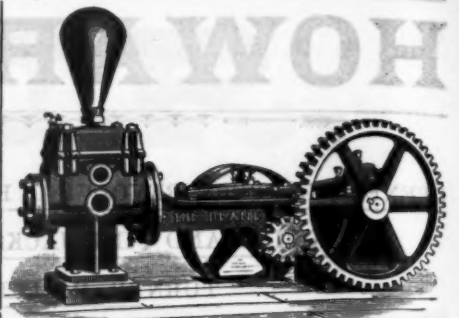
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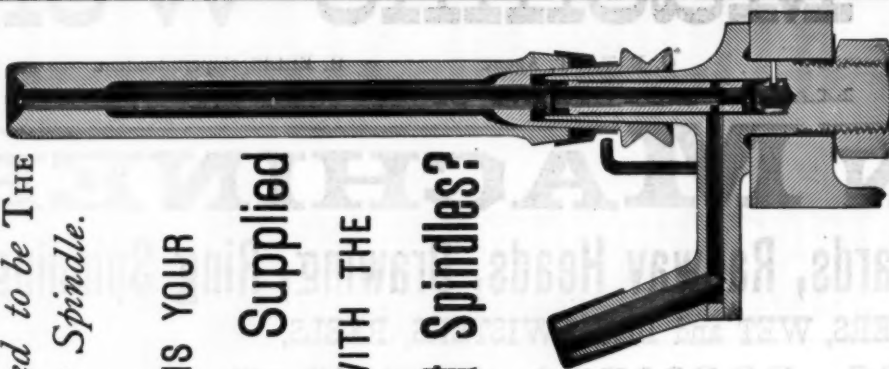
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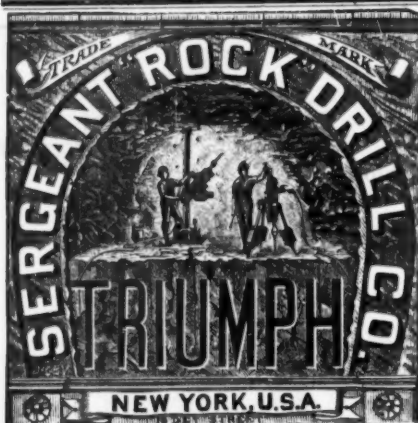
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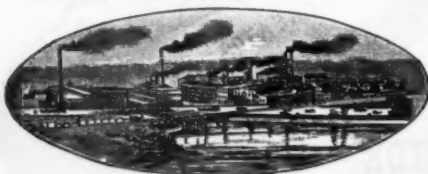
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BALTIMORE, JULY 16, 1887.

EX-SENATOR JOHNSTON, of Virginia, concludes in this issue his article on "The Emancipation of the Southern Whites and its Effect on Both Races." The statistics which he presents are exceedingly interesting and instructive, and deserve careful study.

### How to Build a Town.

We have never known a town or city built yet, without first building houses for the people to live in, who are to make up the population of such places. We are not well enough posted as to facts, to say whether or not this business is being neglected here. But it would seem to be the part of a prudent foresight for the land companies of the town to do what they can on this line. Strangers at a distance who hear of the wonderful boom of the town and who come here and see the high-priced lots of which they have heard all vacant and no improvements of any kind being put upon them, are apt to conclude that the whole thing is a speculative move with but little solid foundation. We are satisfied that such is not the fact, but it may impress a stranger that way.—A Writer in Tennessee Valley, Decatur.

This advice as to building houses is very much to the point. Quite a number of Southern towns are being seriously injured and hindered in their growth by this lack of houses. It is, as this correspondent says, rather disappointing to visitors to these places to find vacant land the most conspicuous object. They expect to see great building activity and hundreds of houses going up, but in too many places they fail to find this.

If any one of a number of these industrial centers would announce to the world that 500 or 1,000 good, commodious dwellings, well planned, had been contracted for, and that they would be built just as rapidly as possible, it would be productive of more good, we believe, than securing the location of some immense car and locomotive works; it would draw more people, cause a greater advance in real estate, and do the town more good. The spending of \$1,000,000 in this way would not only prove of incalculable value to the town, but the investment would be a very profitable one. It would, in fact, yield big returns. We believe every house would be rented or sold at a good profit long before it was finished. Such an undertaking would show the faith of

the leading men of a town in its future more pointedly and emphatically than anything that could be devised. Strangers would say this is the place to invest and to locate new industries, and here we will cast our lot, for these men are demonstrating by actual works their faith in their town.

There are a few of these great land and improvement companies that are strong enough financially to undertake such a scheme. If they have not the ready cash, they could easily secure it, and we believe that they would find it one of the best investments that they ever made. Which one will take the lead and thus give a practical invitation to the thousands who wish to move South to select their town as a home? This will be the winning card. Real estate would double in value under such a stimulus, and people would flock there from the South, from the North and from the West.

These points are well enforced by an article in the New Orleans Times-Democrat, in which, in discussing some recent statistics of Bradstreet's as to the relation between real estate sales and building operations, says:

"The former should bear some relation to the building going on in a city, and when the transfers are out of all proportion to the building, there is every reason for believing that the purchases of land are mainly speculative and gambling. Bradstreet's leans to this latter belief that much of the activity in some localities is of a speculative character; and the statistics it gives seem to support this theory.

New York is the largest builder and the largest dealer in real estate in the country. If it be taken as a criterion, the value of buildings erected should be one-third of the real estate transfers. Philadelphia, on the other hand, is a building city, and does not speculate at all in land. It is bought there to build on. The town sold in five months of 1886, \$20,000,000 of real estate and built \$18,000,000 of houses; in 1887, for the same period, the real estate transfers were \$25,000,000, the building \$20,000,000. In other words, the per cent. of building to real estate transfers average 85. On the other hand, in Los Angeles the percentage is but 9 per cent. There were transfers of \$30,526,062 in the California town, against buildings put up costing \$3,000,000. Real estate in Wichita, Kan., is still more speculative, the transfers being \$34,893,565 to \$1,617,970 of buildings erected, or 4 per cent. Minneapolis sold \$21,165,271 of real estate and erected \$1,875,587 of houses, or 9 per cent. Denver sold \$15,604,408 and invested only \$1,113,900, or 7 per cent. in brick and mortar."

THE money has been raised for building another charcoal furnace in Gadsden, Alabama, and one-third of it was subscribed by Gadsden ladies. Is there another furnace in the country, in which the women have shown such interest? Now that the women of the South have enlisted for the industrial development of their country, there need be no fear of any step backwards. All honor to Gadsden's fair contributors to this new enterprise. May others follow their example.

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### Progress in Agriculture.

There will be several important assemblages in the South next month, which must have a large and beneficial influence on the agricultural progress of its people. The first, called the Interstate Farmers' Summer Encampment, will assemble at a suitable spot in the suburbs of Spartanburg, S. C., at 8 o'clock A. M., Tuesday, August 2, and continue in session until the following Saturday. The Patrons of Husbandry of Alabama, Tennessee, Georgia, North and South Carolina are participators in this initial effort to establish an annual meeting place where the producing classes of their States can compete in friendly rivalry, bringing with them specimens of their products, and exchanging the practical lessons of their experiences. The advantages that have accrued to the people of other States in which assemblages of like kind have been held for a term of years prompted this movement. Spartanburg was selected because of its central position, its railroad facilities and its healthful climate, and also, and largely we presume, because the people of that city and county are thoroughly alive to the progress and activities of the age, and were ready and anxious to contribute liberally to the work of preparation. The MANUFACTURERS' RECORD has heretofore told of the energy and public spirit of the people of that Piedmont city, and takes this occasion to congratulate them on their present forward movement. The grounds selected comprise 30 acres, with a broad frontage on the railroad, where there will be side tracks and all other facilities for the rapid and safe handling of freights and passengers. The State of South Carolina is erecting a handsome building for the display of its products and resources, an example which it is hoped will be followed by the other States next year. Whatever is raised on the farm, be it stock, poultry, fruit, vegetables, grains or grasses, is to be exhibited; also dairy products and wool. Manufacturers of agricultural implements and machinery, and of whatever else contributes to the economies or comforts of the farm, garden and household, are requested to exhibit at that time. Low freight and passenger rates have been secured from all railroads. All desired information concerning this encampment may be obtained from the secretary of the local board, Charles H. Carlisle, Esq., Spartanburg.

Next in order is the North Carolina State Grange Encampment and Farmers' Institute. This will be held at Mount Holly, N. C., a village on the banks of the Catawba river, ten miles west of Charlotte, on the Carolina Central Railroad. Recent acts of the General Assembly of that State added to the other duties of the Department of Agriculture the supervision of farmers' institutes. At the request of officials, the citizens of Gaston county created a local board

of managers to prepare the first of what is destined to be an annual institution. The officers of the State Grange joined in the movement, and all parties are working harmoniously and energetically to make this venture a success. In kind it will be like that at Spartanburg, but the attendance will be mainly of North Carolina people. A long list of speakers has been secured; men well versed in the subjects which they have selected. This encampment will begin Wednesday, August 10th, and close on Saturday. Buildings for exhibitors will be provided, and displays of the same kind as at Spartanburg will be made. Particulars respecting this encampment and institute may be obtained from John T. Patrick, commissioner of immigration, Raleigh, or from M. H. Pride, corresponding secretary, Mount Holly.

At both these places manufacturers of all things that farmers use will find in large numbers the class of customers they desire. As exhibits made at Spartanburg can be shipped in a day to Mount Holly, and there are three days between the close of one and the opening of the other here is an excellent opportunity.

The last of the trio of gatherings is the Interstate Farmers' Convention, that is to meet at Atlanta the third week in August. This will not be a mass meeting, but a representative gathering of the most advanced farmers, business men, journalists and manufacturers of the South. The whole plan is in the broad gauge that characterizes Atlanta, and will be a fitting preliminary to the Piedmont exposition to be held there in October. The subjects selected for discussion at Spartanburg and Mount Holly cover a wide range, but all are intimately associated with agricultural interests. At the latter place, Hon. Kemp P. Battle, president of the State University, will tell why "the farmer must be educated." Dr. J. N. Cook, the eminent veterinary surgeon, of Atlanta, Ga., will speak of "the diseases of domesticated animals and the necessity for their humane treatment." James H. Ennis, the veteran editor of the North Carolina Farmer, has for his theme "the importance of economy on the farm," and Col. Thos. M. Holt, the enterprising Haw river manufacturer, will describe "the effect and advantages of manufactures to the farmer."

All these meetings are most encouraging signs of the spirit that prevades the agriculturists of the South. They are breaking out of the old ruts, and with eager inquiring minds are seeking to solve the economic problems that confront them, and to meet their new conditions and surroundings in the same spirit that actuates their fellow citizens engaged in mining and manufacturing. Only this is needed to give the South its grandest momentum, for, when to all the rest is added progress in agriculture, then every department of industry will go on from conquest to conquest.



## The Emancipation of the Southern Whites

### AND ITS EFFECT ON BOTH RACES.

By JOHN W. JOHNSTON, of Richmond, Va.

[CONCLUDED.]

In the preceding article some of the evidences of growth in things which the South does in common with the whole country were given; but it is in the development of new industries that one great element of her advance and future prosperity is to be found. The newly discovered phosphate deposits in South Carolina are and will be a great source of wealth to that State. How rapidly that has grown these figures show. There were mined as follows:

1890.....tons, 190,000    1884.....tons, 400,000  
and the capital invested was:  
1890.....\$3,493,300    1884.....\$4,500,000

Formerly cotton seed were thrown away or only used as manure. Now their value has been ascertained and they promise to yield a revenue and employ labor on a grand scale. The weight of the seed is about double that of the lint—in other words for every ton of lint there are two tons of seed. The table in Mr. Spofford's American Almanac, which is accurate without doubt, gives the lint in 1879 as 1,362,599 tons, and the seed at 2,725,197 tons.

This article once wasted is now in the rapid process of utilization. Cotton seed oil mills have grown from 40 in 1879 to 146 in 1886, and the capital employed in them from \$3,504,500 to \$10,792,450. It is estimated that now 3,000,000 of tons are annually grown, and when it is known that of this vast quantity, notwithstanding the progress already made, only 400,000 tons are as yet converted into oil, the balance being either lost or used as manure, we will see at a glance what a mine of wealth this is and will be to the South.

The crops I have mentioned are those staple crops which are in universal use, employ thousands of people and realize millions of dollars. But, as I have already said, the real prosperity of a country depends almost as much upon what may be called the minor industries. They are not disturbed by strikes, nor affected by hard times or revulsions in money affairs. Of them, there is no overproduction, nor any glutting of the markets. As an illustration of this, let me refer to the peanut crop, and I give an extract from a Norfolk paper which will furnish some idea of the value to Virginia of this almost unnoticed product:

"We see that the peanut crop of 1886 is estimated at about 3,500,000 bushels—worth about \$3,000,000. Of this important crop, Virginia raises \$2,500,000 bushels, and the culture of this nobby nut is confined to about a half dozen counties in the southeastern corner of the State. Of the 2,500,000 bushels raised in Virginia, it is quite safe to say that this city (Norfolk) will handle nearly 2,000,000 bushels. The crop is annually growing in importance as new uses are found for the nut and also for the vines. The nut brings a fair profit, equal to corn. The vine is nearly or quite as valuable as clover hay, and after the nuts are dug enough still remain in the ground to offer sufficient inducement to the hogs to root the ground over thoroughly and to fatten at the same time. It is, for Virginia, an important crop, and brings a usually large sum of money into the State from abroad."

The worth of this crop will be better understood when it is known that it is grown on lands where neither corn, tobacco or wheat can be raised profitably.

The statement is made that the trucking business in the counties in Virginia, adjacent to Norfolk, including the peanuts, aggregates annually about \$5,000,000.

Since 1879 the assessed value of property in the South has increased nearly a thousand millions of dollars, and in this connection it is to be noted that the South is

relatively richer than the assessments show, because property there is undervalued to a greater degree than in the North and West.

The increase of live stock in the South has been one of the most marked features of its growth and progress. From the census of 1880 I take the following statistics, and it is well known that the advance, in that particular, has been greater since that time than in any equal number of years before. By way of comparison, I show the number of cattle, sheep and swine and the quantity of corn, oats and wheat, in the census year, in representative States North and South.

	CATTLE.	SHEEP.	SWINE.
Texas.....	4,894,898	4,457,323	2,449,633
Florida.....	558,373	105,681	315,000
Georgia.....	909,911	527,880	1,471,003
Massachusetts.....	261,191	67,979	80,123
New York.....	2,359,721	1,715,180	751,007

and as to the cereals let us select:

	CORN.	OATS.	WHEAT.
Mississippi.....bush.	21,340,800	1,059,620	218,800
Massachusetts.....	1,787,768	945,159	15,768

These figures well illustrate how independent and self sustaining the South has become since the emancipation of the whites, and how able that region is, not only to support itself, but largely contribute to feed and clothe the world, and on the other hand, how dependent the North Atlantic and New England States are upon others for both food and clothing.

The foregoing figures will give the reader a fair idea of what the South is now producing, and, while discussing that matter, it may be both profitable and interesting to enquire what its capacities are and what its ultimate outcome will be when the whole of it is reduced, as it will be in the end, to a condition of cultivation, resembling that existing, we will say, in the good farming counties of Pennsylvania. The South is sparsely settled, much of its best lands are in a state of nature, or very rudely farmed, and yield now far below what they should do.

The following table shows the area in cotton in 1879:

	ACRES.
Mississippi.....	2,093,390
Georgia.....	2,017,128
Texas.....	2,173,732
Alabama.....	2,330,086
Arkansas.....	1,049,976
South Carolina.....	1,364,249
Louisiana.....	864,787
North Carolina.....	896,158
Tennessee.....	722,589
Florida.....	245,595
	14,657,090

The number of bales of cotton raised on that area was 5,688,107, or only a little more than one-third of a bale to the acre. Florida, on her 245,595 acres, only grew 54,997, or between the fourth and fifth of a bale to the acre. Most of the land in the cotton region is naturally of a good quality, and this small yield only demonstrates how backward are still the processes of cotton raising. Of course, where the area is so great, manure or commercial fertilizers can only be used to a very limited extent, but good tillage would go a great ways towards increasing the crops.

	ACRES.
Alabama contains.....	33,440,000
Arkansas.....	34,464,000
Mississippi.....	29,856,400
And in Texas the cotton belt alone contains.....	83,915,200

In the last-named State only about one acre in thirty-eight of the cotton lands were devoted to that crop. It is quite apparent, therefore, that Texas alone is equal to the task of producing the amount now raised in the whole United States several times over.

In Arkansas only one acre in thirty-two; in Alabama and Mississippi, one acre in fifteen are planted in cotton. In 1879—the census year—Mississippi grew 955,808 bales on 2,106,214 acres, working only one acre in fifteen. Suppose she worked ten acres out of fifteen, which is only two-thirds, and no improvement was made in cultivation, the product would be about 10,000,000 bales or nearly twice as much as is grown in the whole United States. But if the land was worked to advantage, and the crop increased as it could be by the

means employed elsewhere to enrich the land and increase the growth on it, it is not extravagant to say that the State of Mississippi alone would grow from 12,000,000 to 15,000,000 bales of cotton annually.

I have not the data from which to ascertain the area of the sugar and rice lands, but what is true of cotton, is true of those crops also, though, perhaps, not in so great a degree.

That the Southern white man has made a good use of his emancipation is seen of all men. While he was a bondsman his allotted task was well performed. Now that he is free, his energy, his enterprise, his industry, his courage have found new channels and profited in them all.

But a vital question to more than him is the one how the colored race has profited by their freedom? What progress are they making, not only in new business and the accumulation of property, but in education, mental development and morals? He was once an industrious man, a sober man, and crime was rare with him. Is he industrious now, is he sober, does he still abstain from crime, has his mind expanded, do his morals continue good? It is much to be feared and more to be deprecated that all these questions cannot be answered favorably to him. And if the answers are against him it is the more to be deprecated, because the world never saw such a spectacle of fidelity and kindness as the race exhibited during the war. The white men were in the army, and the care of the family and conduct of the farm were left with the slaves. The property of their masters, the lives and honor of the family were put in their hands, and the great trust was honored. So far from abusing it, or using their opportunity to plunder their owners or be guilty of other misconduct, they remained at home, they cultivated the land, raised and saved crops, protected and cherished the women and children. And if a change has come over them and they have and are departing from their good record, it may be only a temporary departure, caused by their sudden change from slavery to unrestricted freedom.

That there has been a change in many respects, and that not for the better is certain, and I know no better way of illustrating it than by taking the city of Washington, where reliable statistics exist, and see what his condition and conduct there are. The colored race cannot complain of being tried by the standard of their fellows in that city, because it affords a better opportunity for them than any other point in the whole country. They are under the immediate care of Congress. They have opportunity of Government employment, and the means of education are open to them in the public schools and in the higher branches in Howard University.

As to health, the death rate in Washington for nine years from 1876 to 1885, shows this: White, 19.02; colored, 34.99, the deaths among the colored people being nearly double those among the whites. This excess of death rate among the colored people over the white occurs in more ways than one. For instance, the death rate among children under five years of age was: white, 6.27; colored, 16.41. Still-births are far more frequent among the blacks than among the whites—probably from the habit of the former in employing midwives of their own color instead of doctors. In the year 1884 there were 1,477 colored children born in the city of Washington, and of them only 308 were returned by physicians, and of that number 284 were born in hospitals or asylums, where the physician belonging to the institution was in attendance, leaving only 74 cases in which the colored people voluntarily employed doctors.

But a more deplorable result is reached when the record of illegitimate births is examined. In 1884 the illegitimates were

as follows, viz.: White, 63; colored, 281, and this in a population of more than three whites to one black, and in 1885 the difference was still greater, for it was—white, 56; colored, 337. There was one statement in the report of the Health Bureau well calculated to excite horror, and to make the reader not hopeful of the future of the black race. There were in Washington twenty-two homicides of children under one year of age—two white, twenty colored.

The records of the criminal courts in that city present an ugly picture. I quote now some statistics prepared by Dr. George Ben Johnston of Richmond and make extracts from an article published by him, called "What will become of the colored race?"

"From January, 1881, to November, 1882, there were 253 convictions for felony in the District of Columbia. Of these, 64 were whites and 189 colored; and on the 21st April, 1884, there were in jail awaiting trial 187 persons: white males, 52; colored males, 114; colored females, 23; white females, none."

The writer then proceeded to give statistics of convicts in several States, with the following result: In the South Carolina penitentiary in 1880 there were 642 convicts, of whom 586 were colored and 56 white. In Georgia 1,300 convicts, of whom 130 were white and 1,170 colored. In Mississippi, in the penitentiary, 74 whites, 688 blacks. And in the Virginia penitentiary, there were 664 colored males and 83 colored females; 207 white males and 5 white females. In New York for every 10,000 colored people there are 152 criminals.

The number of females is only given in the reports from Virginia and the District of Columbia, but in those two the colored female convicts number 96 and the white female convicts only 5.

Three hundred and thirty-seven colored illegitimates in the city where our government resides in one year, twenty homicides of colored children under the age of one year, twenty-three colored women in jail awaiting trial for felony, eighty-three colored women in the penitentiary of a single State! This is a fearful spectacle and may well fill the American people with alarm, and should impel them to the instant, strenuous and continued effort to bring about a reformation.

If such things are inherent in the colored race, and if they are by nature prone to crime and vice, then there is no remedy. But if they result from a sudden change of condition and a release from the restraints imposed upon them by their condition of slavery, then let statesmen, philanthropists and all good citizens seek for a corrective, for certain it is that they loudly demand attention.

When we recollect how simple and harmless the life of the colored race once was, how free they were from crime, insanity, intemperance and vice generally, we are forced to conclude that as to crime at least, he has not profited by his freedom.

In all the Southern States the public school system exists and has been in operation—whites and blacks sharing equally in proportion to numbers in its benefits—for a period long enough to afford some test at least, though hardly yet a full and reliable one, of what it is doing for the black race, and what good they are deriving from it. The best mode of arriving at a correct idea on this point is, to examine the reports of the superintendents of public instruction, which are generally very full and complete.

It is now twenty-two years since the war ended. The common schools have been in operation not less than fifteen years in the South. All youth of both races under twenty-five years of age, have had equal access to them. So far as illiter-



acy, by which is meant inability to read is concerned, there is no reason why it should be greater among the blacks than the whites, of those born since the termination of hostilities.

In Georgia, according to the school census, the number of children between 6 and 18 years of age is: White, 261,884; colored, 234,889, the whites exceeding the blacks only 26,995.

Yet of those between the ages of 10 and 18, which is the period during which most schooling is obtained, the number unable to read is: white, 23,323; colored, 63,307.

In North Carolina the school census gives these figures:

	1885.	1886.
White.....	330,890	338,059
Colored.....	190,237	200,249

And in 1885 the attendance at school of colored children was 70,486, which fell to 68,585 in 1886.

In Virginia, where the common schools have been at work for 17 years, in 1885 the number enrolled was: white, 194,000; colored, 109,108; and the average daily attendance was: white, 115,624; colored, 60,845. The percentage of school population enrolled was: white, 62; colored, 45; and the average percentage of daily attendance was: white, 36; colored, 25. The number of colored children from five to twenty-one who never attended school was 102,353, and the number unable to write was 150,248, and unable to read was 124,637.

So that the colored children fail to enroll; and when enrolled, fail to attend to the degree the whites do, and in Virginia, among those under twenty-one, the rate of illiteracy is:

White, 30½ per cent; colored, 53½ per cent. What the result in Louisiana has been, the following statement discloses:

The New Orleans Times-Democrat publishes an official table of the registered voters of the State of Louisiana, which, as that paper is fully justified in stating, gives a melancholy evidence that the educational advantages of the State are not sufficient for its present needs, and that it is going backward toward illiteracy rather than forward.

By the census of 1880, as quoted by the Times-Democrat, there were 216,787 males of a voting age in Louisiana, of whom 113,895, or 52.4 per cent., could write their names, while 102,932, or 47.6, made their marks. The greater portion of these illiterates were among the colored people, over 80 per cent., or four-fifths of that race being unable to write; but the number of white illiterates was 16,877, 15 per cent., or more than one-seventh of the total white voting population.

Since 1880, or in six years, the Times-Democrat says: "The number of illiterate voters has grown from 102,932 in 1880, to 112,411 in 1886. The number who can write has actually fallen from 113,895 to 105,426. The youth growing up in Louisiana and becoming voters are growing up in ignorance and illiteracy. The schools are not only unable to make any impression on the illiteracy in this State, but cannot even keep up with it; and we are consequently drifting backward."

Much has been written about the relative increase of the two races in the United States, and the apprehension expressed that the colored race would gain rapidly on the white, and after awhile displace them in certain quarters of the country. This fear was derived mainly from the large apparent increase of negroes from 1870 to 1880, as shown by the census reports of those years. But this is manifestly delusive. The census of 1870 was very defective, as Gen. Walker himself stated. The increment of the two races has been as follows:

YEARS.	WHITE.	COLORSD.
1840 to 1850.....	21.9	23.1
1850 to 1860.....	23.1	22.0
1860 to 1870.....	15.04	9.8
1870 to 1880.....	21.1	34.8

It will be seen the increase of negroes from 1860 to 1870 was only put down at 9.8, while from 1870 to 1880 it is reported at 34.8, which two added together make the same rate as for previous decades, being an average of 22.3.

Carefully-prepared tables, going back to

1800, give these percentages of the negro to the total population:

	PER CENT.
1800.....	19
1820.....	19
1840.....	19
1860.....	14
1870.....	13
1880.....	13

But it must not be forgotten that for the four years of the war, the conditions of reproduction were far more favorable among the negroes than the whites. The negroes were not disturbed in the usual course of life—they lived as they had always done, and were protected and cared for by both sides. No matter which party occupied the country the negroes had no occasion to do anything but stay quietly at their homes. They were engaged in agriculture—the most peaceful and healthy of all pursuits. Their condition of slavery kept them from the vice of intemperance, and their lives on the farms and plantations did not expose them to accidents. There could be no life more favorable to the rapid increase of a race than that of the negro before the war.

But on the other hand the four years of the war so favorable to them, were highly unfavorable to the whites. In the South 600,000 men in the prime of life left their homes and went into the field, while in the North the white men who enlisted reached the enormous number of 2,765,691. Only 173,000 negroes were taken into the army of the North, of whom 93,000 were from the South. What a check this condition of things was to the increase of the whites it is easy to see.

In 1880 the population of the United States was: White, 43,492,770; colored, 6,580,793, and the deaths that year as follows: Whites, 640,191; colored, 116,702, giving a rate of 14.07 to the 1,000 of whites and 17.73 of the colored.

Statistics of all the cities where any considerable proportion of the population is colored show a mortality about double that of the whites. This became so marked that a few years ago it was made the subject of special consideration by leading colored men at a meeting held in Washington, but no remedy was suggested.

Nor is there any reason apparent why an improvement should take place in these respects. The two races are each year drawing farther apart, and there is less of the intercourse between them of a character to profit the colored people than ever before. They employ their own doctors and aspire to manage their own affairs, being jealous of anything looking like supervision or control on the part of the whites. To them, that savors a little of their old condition of slavery, and they will have none of it.

If we are to judge of the future of the black race in the South by the condition of the free negro in the North, then indeed there is much to fear. Here is a picture, submitted by Mr. Kennedy, the superintendent of the census of 1860, with the census:

"In the interval from 1850 to 1860 the total free colored population of the United States increased from 434,449 to 488,005, or at the rate of 12.33 per cent. in ten years, showing an annual increase of 1 per cent. This result includes the number of slaves liberated, and those who have escaped from their owners, together with the natural increase. In the same decade the slave population, omitting those of the Indian tribes west of Arkansas, increased 23.39 per cent., and the white population 37.97 per cent., which rates exceed that of the free colored by twofold, and three or fourfold respectively. Inversely, these comparisons imply an excessive mortality among the free colored, which is particularly evident in the large cities. Thus in Boston, during the five years ending with 1859, the city registrar observes: 'The number of colored births was one less than the number of marriages, and the deaths exceed the births in the proportion of nearly two to one.' In Providence, where a very correct registry has been in operation under the superintendence of Dr. Snow, the deaths are 1 in 24 of the

colored; and in Philadelphia, during the last six months of the census year the new city registration gives 148 births against 306 deaths among the free colored. Taking town and country together, the results are more favorable. In the State registries of Rhode Island and Connecticut, where the distinction of color has been specified, the yearly deaths of the blacks and mulattoes have generally, though not uniformly, exceeded the yearly births—a high rate of mortality, chiefly ascribed to consumption and other diseases of the respiratory organs."

It is in these terms that Senator Blair of New Hampshire, the special friend of the blacks, speaks of them in a speech in the United States Senate:

"I am convinced of the fact that the general condition of the colored population in very much the larger geographic proportion of the South is growing worse rather than better, and the colored youths now are not so quiet and good natured and easily managed and tractable a race of men as the Northern people are inclined to think. I believe they are rapidly becoming demoralized—an idle, thriftless population, with a tendency to violence, and likely to become a source of much danger to the United States, as a population like this described in Jamaica can be."

\* \* In twenty-five years from now this Southern colored population, unless something is done to restrain, improve and elevate them, are quite likely to be a source of violence and of turmoil to this country."

And the President of the Hampton Normal and Agricultural Institute, which is a colored college, says in one of his reports:

"The country is just awakening to the fact that a vast black population threatens by force of its numbers and its ignorance, for which it is not responsible, to overwhelm, at certain points, its civilization, especially in those States where there is a majority of negroes. Where the blacks are massed in large numbers, particularly in the more Southerly States, a tremendous physical advantage. The standard of morality in places is shocking and almost shameful."

This is the language of a man who has devoted years of his life to teaching colored youth of both sexes and studying their character.

On this evidence the verdict can scarcely be anything than that the colored race has deteriorated both in industry and morals; that they have not made as good use of the chance of obtaining an education, which the whites have given them as could be desired, and that, as time progresses, they seem to appreciate it less and become more indifferent to its advantages. And it is apparent that the crops, especially the work of the blacks, and some of which they only can do—such as rice—have uniformly declined.

On the other hand, it is equally true that they have labored under great disadvantages, and may yet reverse this judgment. Numbers of them are excellent citizens and are accumulating property and conducting themselves well in all respects. But this class consists in the main of men who had attained manhood while yet slaves. The young do not afford much promise in this direction. But unfortunately for the colored, as well as the white man, there is a record made and kept of his crimes and evil deeds, but none of his virtues and good works. The industries in the South carried on exclusively or mainly by negro labor have not thriven.

They raised, in former times, rice, sugar, tobacco, and cotton. The product of rice, sugar and tobacco have absolutely and actually declined, while the cotton produced by negroes has also declined, though the total product of the South has increased, more than half of it, however, as has been already shown, being grown by white labor. The "boom" in the South has not been in these things, but in others—mainly the work of the whites, and which their emancipation has allowed them to engage in. It is the free white man, not the free negro, who has given the impulse to Southern industries and development which have astounded the world.

In the South are congregated more ele-

ments of wealth than in any other country in the globe—more to make a people rich, prosperous and powerful. When we see one region producing cotton, sugar, rice, tobacco, corn, wheat, oats, grass, all the fruits, one may well think that that country has her share of the gifts of this earth. But when added to them is a positive redundancy of minerals—gold, iron, coal, salt, gypsum, limestone, marble, copper, zinc, lead, and a great variety of valuable medicinal waters—hardly any estimate of the future of such a country can be too extravagant. The South is emphatically a producing country, and that is the country in which comfort, easy methods of making a living prevail, and where property is safer, and society less disturbed, and the whole system more permanent, than elsewhere.

The emancipation of the whites will make the South great, rich and prosperous; but the destiny of the blacks is enveloped, as yet, in mystery.

## Fish and Fishermen of Eastern Carolina.

(Special correspondence MANUFACTURERS' RECORD.)

MANTOE, DARE CO., N. C., July 9, 1887.

My trip down the banks, from which I have just returned, extended nearly to Cape Hatteras. One of the latest and most promising industries of this section is the extensive porpoise catching plant of the Wilmington (Del.) Leather & Oil Co. This concern has several fishing stations and conducts its operations on a large scale. As the season closed the last of May, and work will not recommence until the 1st of September, it was useless to make the long and tedious journey to their headquarters on the coast. There are plenty of porpoises to be caught during the summer months, but because of the difficulty of preserving the skins until they can be conveyed to the Wilmington tannery, it has been deemed good business policy to suspend operations during the summer months. From all I have been able to gather from intelligent employees of the company and from numbers of the shrewd bank fishermen who have watched its operations with much interest, and from doubters have been converted into enthusiastic admirers of the enterprise, I am convinced that the business thus far done, which has been considerable, is but the beginning of much more extensive operations. There are many places on the beach between Oregon inlet and Cape Hatteras where porpoise catching can be done to as great advantage as at any of the several stations the company has already established, and either that pioneer concern or some other following its example will undoubtedly utilize them at an early day, for there is big money in this industry.

The little fishing hamlets at various points on the sound south of Oregon inlet are interesting enough to repay a stranger for his trouble in visiting them. Among these are the two separated by a small shallow bay that together comprise the settlement of Chicamacomico. These are peopled mainly by families of the name of Midget, but the name belies the men of the race, who are as bold, hardy and skillful seamen as ever launched a boat in a raging surf or reefed a sail in the teeth of a terrible gale. Probably they came of the same parent stock, but no herald's college has preserved the original coat-of-arms, nor do the records in their family Bibles go back to their original progenitors. As a whole they are very handsome men, of sturdy well-knit frames, of great vigor and endurance. With little book-learning, they yet are intelligent people, and they can read the weather signs of sea, land and sky with remarkable accuracy. What they and their neighbors of other surnames know about the habits of the fish that frequent Pamlico sound would be a fund of information for scientists. They are keen observers and make good use of their facul-



ties. They are a cheerful, active, industrious people, who live in great simplicity and are far better contented than the average dwellers in cities. Their two little villages, seen from the water, are quite picturesque. Their cottages are built beneath the dark masses of a live oak grove, which shields them to some extent from the eastern gales and the showers of sand they bring with them. Nets, boat houses, a great brown windmill, whose skeleton arms are at a stand-

buyers at the average price of 15 cents a hundred. During the off season, from November to January inclusive, these people give much time to gathering the native oysters of Pamlico sound and carrying them to the cannery at New Bern, which is always a ready customer. Between Chicamacomico and Hatteras inlet, there are on the banks between the sound and the ocean several fresh water swamps of considerable extent, covered by a vigorous forest growth.

house and shelter for passengers. This projected improvement will be of great benefit to the island and make it, even more than it is now, the center of trade for the banks and the people of the mainland on the opposite side of Croatan Sound.

A recent circular from the office of Manager King, of the Norfolk Southern Railroad, to his agents in these waters is such a creditable indication of the skill and sagacity with which that company conducts its affairs in the interests of its patrons, that it is entitled to notice. The completion of that road to Elizabeth City and Edenton gave a great impetus to the business of catching fish and sending them in pound-iced ice to the Northern markets. At first all went from Norfolk by steamers, but as shipments could not be made daily, Manager King effected a combination with the Pennsylvania Railroad by which boxes of fish leaving either city early in the morning could be delivered in New York about the same hour next day. At first there were frequent delays on the Jersey side of the river, which gave rise to much complaint from the New York commission merchants. To obviate this Mr. King induced the Pennsylvania management to put on a special fish train following behind their through express, and to have a report made daily of the time of arrival at Jersey City and of delivery at pier 27 North river. The condensed report now before me covers every secular day from March 1 to April 22 inclusive, and is a remarkable illustration of the skill and accuracy with which first-class railroads like the Pennsylvania conduct their business. The average hours of arrival every week were as follows: For the first week in March, 3.16 A. M.; for the second, 3.48; for the third, 4.28; for the fourth, 3.44. In April, first week it was 4.11 A. M.; for the second, 3.25; for the third, 3.18, and for the fourth, 2.51. This bit of characteristic good management on the part of Mr. King has put many thousand dollars into the pockets of Albemarle, Croatan and Roanoke fishermen.

B. S. P.

#### A New Engine.

Each day the South is becoming more self-reliant in the effort to support her growing industries. Much of the kind of machinery which two years ago had to be purchased North for use in Southern industries is now being made in the South. The figures 1 and 2 illustrate two views of an engine lately designed by Mr. D. A. Tompkins, of Charlotte, N. C., and now being

same time it has been kept in view that such a machine requires the very best material throughout. The castings are all of some Alabama iron and a cold blast charcoal iron made near Charlotte. This latter is very remarkable for its toughness, the pigs often bending instead of breaking under heavy blows.

The construction of this engine is a case of turning native Southern raw material, by Southern labor, into a machine especially adapted for use in the South.

The special features of this engine are the straight lines of the bed, the simplicity of the valve motion, and the use of steel for all wrought metal parts.

For further information address the D. A. Tompkins Co., Charlotte, N. C.

#### Diamond Mortising Machine.

The Diamond Mortising Machine, shown in this cut is claimed to have many new and valuable features; it is designed for practical workshop use. It is strong and substantial, has powerful motion, accurate action and large range for work.

It is made entirely of iron and steel, except the hardwood strip on top of the table, and the novel construction of the frame renders it strong and solid.

The treadle motion is arranged in such a manner as to obtain great leverage and

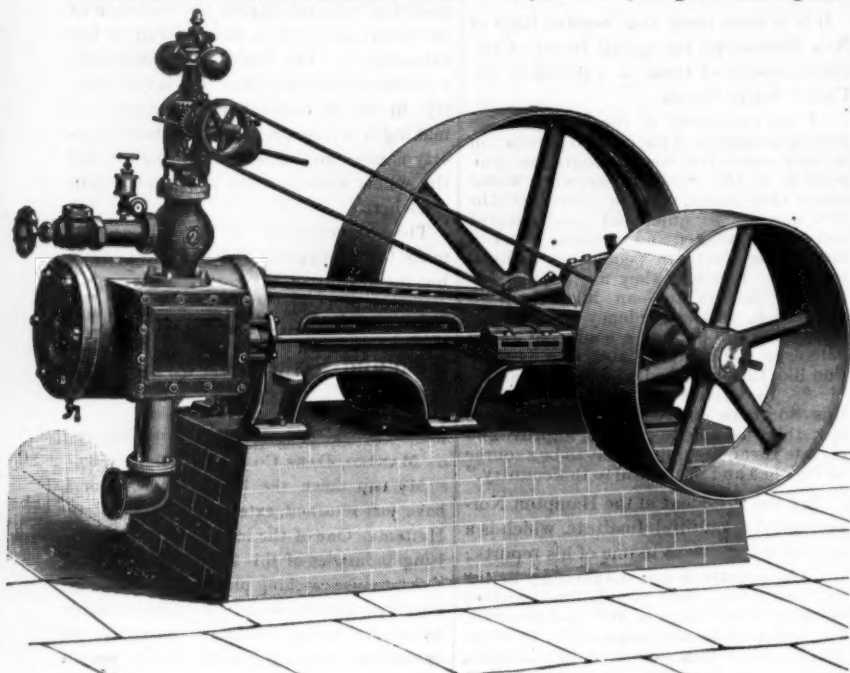


FIG. 1.

still, a green marsh relieving the otherwise glaring brightness of the sand, a fleet of small sailing craft riding at anchor or fastened to stakes,—these are the salient features of the picture. There is one side of their lives not so pleasant to contemplate. Their school system is the poorest and most ineffective I have found in North Carolina. It is, in fact, but little better than a pretense. The average period of instruction here is less than three months in the year, and the teachers employed are themselves sadly in need of an education. Mr. Thomas Midget, the principal merchant of the village, who is a thoughtful and patriotic citizen, conducts a Sunday-school, which is largely attended, and in that he and the few who feel as he does endeavor to make up in so far as it can be done for this great lack. But it is pitiful to think that the scores of bright, healthy children in these hamlets are growing up with none of the advantages furnished by the common schools of other parts of the State.

Wild fowl abound in this part of Pamlico sound, for there is plenty of wild celery in these waters to attract them. In winter geese, some swan, brant and the most highly prized wild ducks come in flocks, and remain several months. There are not here, as in Currituck sound, marshy islands, affording good cover for sportsmen, but, by using decoys or the artifices employed in open waters North, there is plenty of game for both sportsmen and pot hunters. At this season, snipe, willets, sea chickens, marsh hens, reed birds and curlew are plentiful, with no one to molest them. The fishing season begins with shad in February, and other kinds come in regular rotation until some time in November, when gill nets and seines are repaired, dried and stored until the next year. The buyers of Northern fish dealers come here with ice and boxes, purchase each day's catch and pack it, and when their cargoes are complete sail for Elizabeth City, where they deliver the boxes to the Norfolk Southern Railroad, and then return as fast as the winds will let them to resume their purchasing and packing. Near the inside mouths of both Oregon and New inlets are extensive beds of round clams, which are caught at low tide and sold to Baltimore

These are all deer coverts in which many of this noble game find shelter and sustenance. They are occasionally visited in the fall and winter by sportsmen, but not in such numbers or so often as to reduce in the least the abundance of game. When a fine hotel shall be built on Roanoke island as a winter home for Northern people, it will make all these hunting facilities available and attractive to sportsmen.

The Old Dominion Steamship Company has issued orders for the construction of a

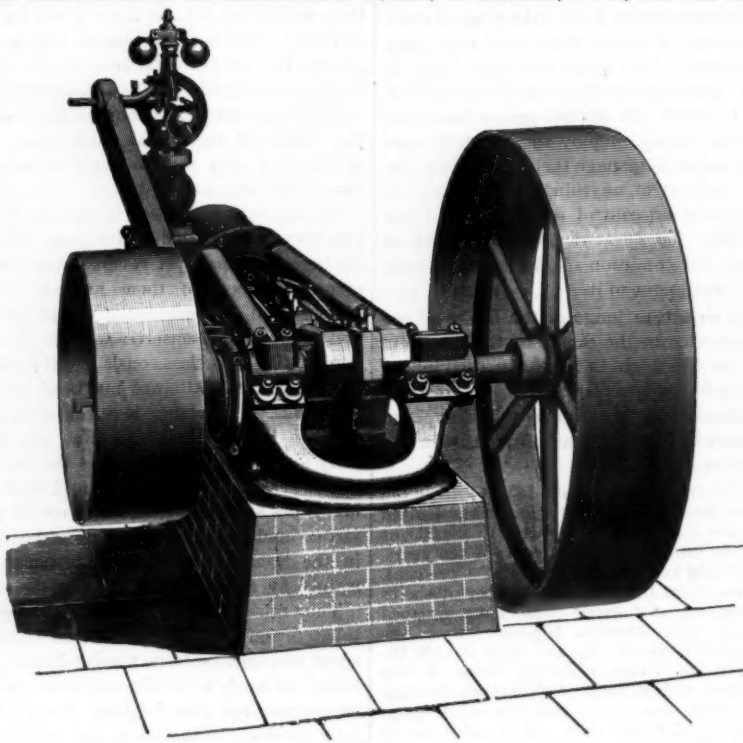


FIG. 2.

dock for its steamers at Ashby's harbor on the west side of Roanoke Island, and men have been sent out to cut the cypress piles and white oak fenders that will be needed. This wharf is to be 235 feet long, the water end having a frontage of a hundred feet, narrowing from that to a width of twelve feet as it approaches the shore. Upon the outer platform will be a commodious store

built there in sizes from 15 to 50 horsepower.

The purpose was to produce the simplest possible form of successful steam engine for the use of planters and others unaccustomed to steam power; one that can be kept in order by such appliances as are usually kept on a plantation and by such skill as can be found in any country community. At the



THE DIAMOND MORTISING MACHINE.

power on the chisel spindle, without special strain on the working parts. The table has easy, accurate and positive, horizontal, vertical and angle adjustments. The angle adjustment is a valuable feature that will be appreciated by all mechanics. It is provided with a graduated scale by which the operator may tilt the table either to the right or left to mortise or cut work on any desired angle. It has a heavy coiled wire spring made of the best spring steel and oil tempered, which can be easily adjusted for any desired tension. The chisel reverser is attached to the upper end of the chisel spindle and is provided with a stop, which secures accuracy in reversing the chisel. For prices and any further information address Seneca Falls Manufacturing Co., Seneca Falls, N. Y.



### The Davis Pressure Regulator and Reducing Valve.

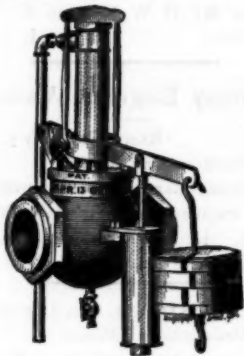
In the accompanying illustrations we give an inside and outside view of the Davis Pressure Regulator and Reducing Valve, manufactured by Geo. M. Davis & Co., 20 South Canal street, Chicago. The principle upon which this valve is made is very simple; there are no auxiliary parts or attachments. The operation of the apparatus is accomplished entirely by the pressure of fluid in the low pressure chamber, the initial pressure having no influence upon the working of the valve whatever. It is very readily taken apart by unscrewing cover *L* of cylinder, removing screws *S* and cover *R*, and disconnecting link *C* at the bottom, making it very easy to clean the interior parts, which are liable to become incrustated with lime, etc., in cases of excessive priming in



VALVE NO. 1.

steam plants for example, or numerous other causes. This is a matter of great importance, and will be understood by those having experience with regulating valves. Upon examining the sectional view in cut it will be apparent that the only part of the apparatus liable to stick from such a cause is the piston *D*. This piston is grooved, as shown, which not only forms a water-packing, but gathers in its grooves by its motion the accumulation, which would otherwise cause it to stick if it were a plain surface; and, in extreme cases, when it does stick it may be quickly remedied, which would not be the case if it were associated with many complicated and delicate parts, which parts would in themselves increase the danger from the same source. This liability to stick has been the cause of the failure of many regulators.

The operation is as follows: Connection is made with inlet end *N* in direct commu-

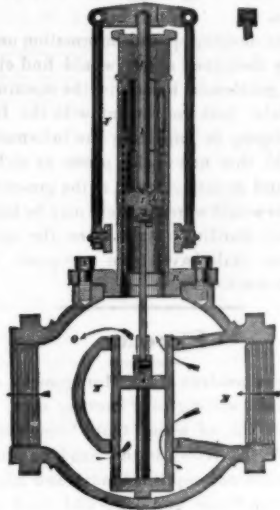


VALVE NO. 2.

nication with boiler or other source from which fluid is drawn. The steam or other fluid passes from high pressure chamber *N* through valve *A* into low pressure chamber *O* and bottom of cylinder below *D* until pressure under piston *D* is equal to the weight brought to bear upon the piston through the medium of stem *E*, yoke *F*, rods *J*, and lever *K*, when the piston *D* will ascend, carrying with it valve *A*, and causing it to approach its seats and diminish the supply, causing reduction of pressure in chamber *O* and under piston *D*, which reduction of pressure will allow piston *D* and valve *A* to descend, giving greater opening through valve *A*. In regular operation the position of valve *A* is constant, gradually opening or closing to supply the required

volume to maintain the pressure in chamber *O*, and not intermittent in its operation.

It will be observed that the principle is simply a balancing of weights and pressure, and the slightest reduction or increase in pressure under piston *D* will cause the valve to close or open. It will be observed that piston *D* rests upon and is supported by pressure to the extent of its weighting, and



SECTIONAL VIEW.

gives the required opening to pass the required volume to maintain the pressure in chamber *O* and under piston *D* as the fluid passes to its work.

Valve No. 2 is the same in all particulars as No. 1, with the addition of an oil cylinder, or dash pot, which is attached to the side, as

This valve is to be used where there is a vibration of pressure, such as would be found in the steam-pipe of a pump, or an engine, caused by the opening and closing of the valves; in steam heating systems, caused by exhaust from engines, pumps, steam elevators, etc.

On steam pumps it will maintain a uniform pressure at the delivery end, regardless of speed or volume, by being placed in the steam pipe—one regulator controlling five pumps in some cases.

It may be used to reduce the steam pressure in underloaded steam engines, when desirable to work with an initial pressure below that of the boiler. For furnishing an unvarying steam pressure to electric light engines, etc.

No. 1 is designed for all purposes where there is no vibration in pressure. It is suitable for all manner of steam heating, boiling, drying and distilling apparatus, or any pressure regulating or reducing.

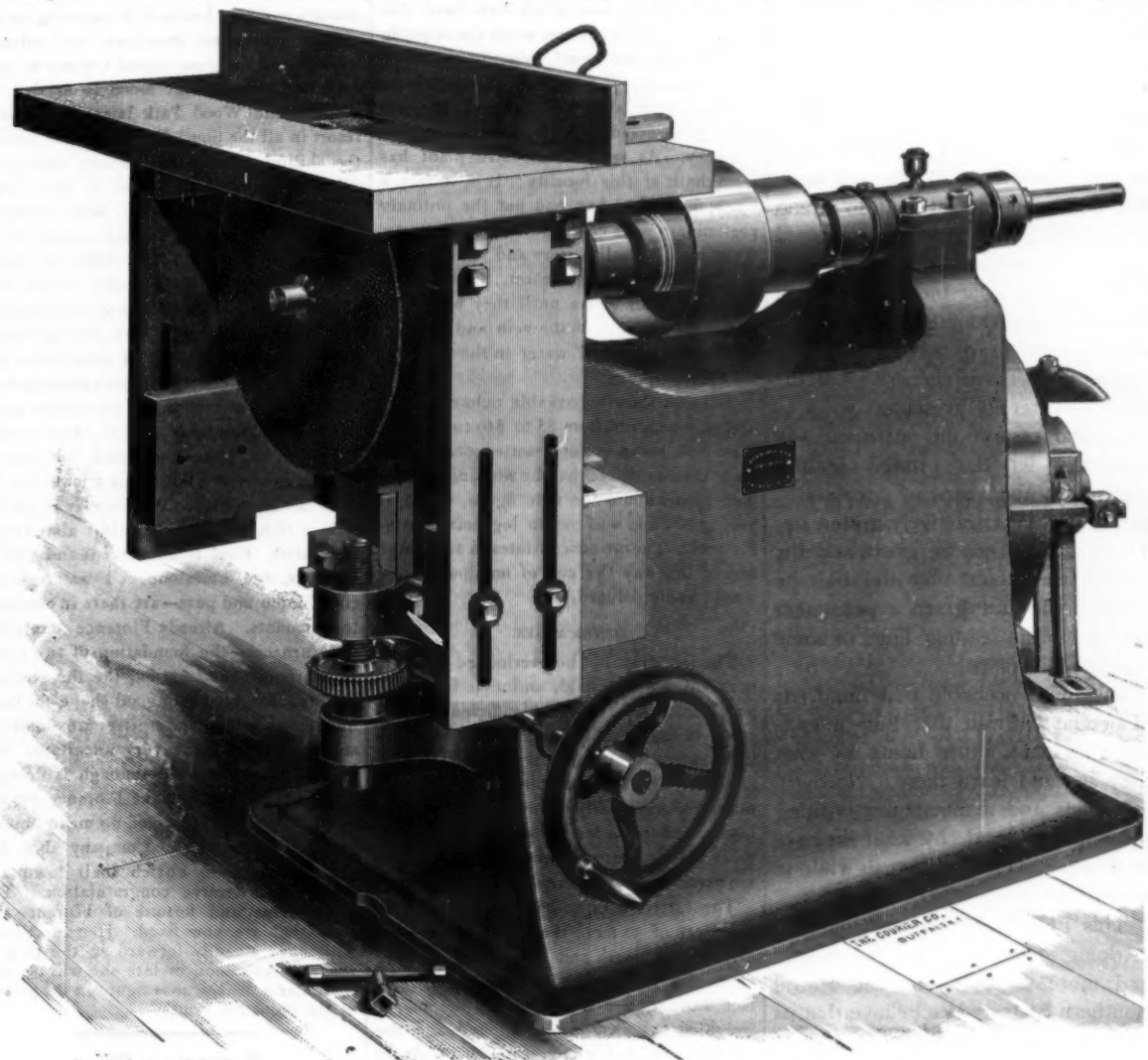
The amount of pressure desired is obtained by weights hung upon the lever, as seen in the cut. By this means the valve may be weighted entirely open, allowing the initial pressure to pass to the work until the apparatus which it may be connected to has arrived at such a state that the reduced pressure is required, when the extra weights may be removed, and the regulator will then immediately assume its normal working conditions. The small pipe connected into cover *L*, and dropping downward below the valve, is to carry off the small quantity of water that will accumulate in the cylinder above piston *D*. All of the essential parts of these valves are made of steam metal, and the workmanship is claimed to be of the best. The joints are ground, no fibrous

### Emery Wheel Surfacers.

The accompanying cut shows an emery wheel surfacing machine, made by the Springfield Glue and Emery Wheel Company, Springfield, Mass. It will be recognized as a substantial machine for the purpose. The base is not only heavy, but it has sufficient flare to give a solid floor foundation, which prevents vibration when being used. One end of the machine has a table 30 inches long by 15 inches wide, with adjustable side guide for sliding work over the wheel. The ends of the table have perpendicular supports extending downward, each with two slots through which bolts pass to securely hold the table when set, and prevent its springing under heavy weights. The table is raised or lowered by a screw worked by a worm and worm gear (or bevel gears), and is kept in line by having side guides running over dove-tailed tracks on the end of base. The opposite end of the machine is left open for miscellaneous work.

The machine is used with solid emery wheels, or wood-covered wheels, with the ends of the spindle tapering to hold the wheels on by friction, or with tight and loose collar and nut. The spindles are made both ways. The machine has steel spindle long enough for a man to work at each end at the same time. It is two inches in diameter, and runs in self-oiling, composition-lined boxes, eight inches long, and of improved design.

WITH its current issue, Light, Heat and Power, of Philadelphia, becomes a semi-monthly journal, publishing on



EMERY WHEEL SURFACING MACHINE.

will be observed in the cut. This cylinder contains a piston; a rod from this piston is connected with the lever, marked *K*, in sectional view. The cylinder is filled with oil, which finds its way past the piston as it may raise or fall. This oil cylinder attachment will prevent jumping or chattering, under all conditions. The oil must be replenished and renewed when necessary.

packing used. Prices and new illustrated catalogue of these valves will be furnished upon application to the manufacturers.

No trade journal that is published has devoted more of its energy and effort to aid in the advancement of the South than the Baltimore MANUFACTURERS' RECORD. Every Southern mechanic and trader should subscribe for it.—Anniston Hot Blast.

the first and fifteenth of each month. We congratulate our esteemed contemporary upon this evidence of that prosperity which its merits deserve. This journal is the exponent of the gas interests of the country, and it is invaluable to all connected with that great industry.



### The Piedmont Fair and Southern Exhibits.

With its accustomed enterprise Atlanta has determined to have a big fair in October and the preparations that are being made seem to insure success. It is indeed a most promising scheme, and never before was the time so propitious. The South is attracting world-wide attention. Thousands and tens of thousands of people in the North and West are preparing to locate in the South. They have learned something of its wonderful resources, of its unequalled climate, of its healthfulness and of the great future that awaits it. Some of them are capitalists looking for profitable investments, some are manufacturers who propose to remove their plants South or to establish new works, and some are farmers. They all want information. They wish to know of the mineral, agricultural and timber resources, the climate, and the advantages for their line of occupation in different localities. Many of these people will visit the Atlanta fair. It will be held at a time, when Northern people will be glad to take such a trip and the arrangements already consummated make it certain that the attendance at the Fair will be large. In view of these facts Southern towns seeking to attract capitalists and manufacturers might find it very profitable to prepare a full exhibit of their minerals and timbers, carefully arranged so as to attract attention. Then send some thoroughly competent man to attend the exhibit, fully supplied with printed matter, showing plainly, fully and truthfully just what the advantages of the town and surrounding country are, what industries are now in operation, and what ones are needed. Let the facts be carefully presented, so as to command respect and attention, and especially let the printed matter, whether in the shape of circulars or pamphlets, be attractively gotten up. The cost need not be great, and the exhibit itself could after the Fair be taken home and given a prominent position in the leading hotel or some other public place.

It is quite probable that hundreds of people will visit that Fair, intending to select a future home by what they see and learn there. Northern capitalists and manufacturers visiting the Fair will decide by what they see as to what places it is worth while to investigate personally.

This Fair ought to be instrumental in doing great good for the South, and more especially for the central Southern States. We believe that its managers, who have succeeded in securing the promise of a visit from President and Mrs. Cleveland, will also secure the attendance of many Northern people who desire to investigate the South's resources and to learn for themselves of the truth of all that they have heard. It behooves the South, therefore, to make this Exhibition such that it will reflect credit upon that section and redound to its prosperity.

## MINING NOTES.

By T. K. BRUNER, Raleigh, N. C.

### LINCOLN COUNTY MINES.

To the industry and energy of Mr. A. S. Haynes, an intelligent explorer and mining man of practical turn, is the development now going on in the county of Lincoln largely due. His headquarters are at Iron Station, near the town of Lincolnton. Mention was made a short time since of his work at the

### BURTON MINE.

to which the following facts may be added. The property is owned by Major H. W. Burton, of Lincolnton, and is under the superintendence of Mr. Haynes. The extent of the claim in acres is not large—63 more or less—but it seems to be rich in gold bearing material, as the following statement will show. The vein is said to be a true fissure, and is 16 inches at the depth of 16 feet. The main shaft is sunk near the center of the tract, and the vein is traceable all the way across the property in both directions. There is a tendency to widen in the vein as depth is attained. The ore is free milling to the present depth of 29½ feet, though there is an admixture of sulphurets which is indicative of the ground below. The general, or more correctly speaking, the universal distinction in North Carolina "brown ores" and "sulphide ores" is of no importance save to the miner and metallurgist, as they are but different phases in the life of the same material. The free milling ores are the natural result of the decomposition and weathering of the sulphide ores which have been dislodged from their habitat, while the sulphide ores are what are found intact in the original formation. In the erection of machinery for the manipulation of these ores due care must be observed in order to meet this contingency. As yet no extensive plant has been built at this locality. It is, in fact, a "new find" and has had but the ordinary preliminary work conducted on the property. They have a small battery and concentrator at a neighboring water power. This is only temporary and serves until they have fully tested the strength of the vein and reached a sufficient supply of water in the mine for washing purposes.

The ores show remarkable richness in the assays, which run from \$8 to \$50 to the ton. This last value is for assorted ores. It is more than probable that the working average will approximate the first figure, which is very good, and will pay in legitimate, careful work. The ore concentrates to advantage and in this way the cost of manipulation is considerably reduced.

### OTHER MINES.

The fact must not be overlooked that this is an entirely new field, and that but little has been done. It is of sufficient importance to induce a thorough exploration by those who are in search of entirely new ground. The lands may now be bought at the price ordinarily paid for agricultural lands, and in order to show the possible value of the district, these additional facts are given on the authority of Mr. Haynes.

The Garrison mine has been worked to the depth of 30 feet; the ores are free milling to that depth and come from a fissure vein with well defined west wall; the surface washings are also of value; one nugget weighing 343 pwt. has been found, and the place has yielded a fair quantity of placer gold since its discovery. It is new territory and has never been regularly worked. There are but 30 acres in the tract.

The Beal mine, in the same vicinity, has been worked by open cut to the extent of 30 or 40 feet with vein 17 inches at bottom; the ore is said to be rich; no old workings; new camp and property at low figures.

The whole district has a wealth in placer gold which demands more careful investigation. A negro boy found a 15 pwt. piece a

short time since, while ditching. This tract, which is apparently good ground, has 50 acres in it, and as far as investigated shows gold in the pannings. There is a tract, two in fact, just above this one, which are also rich in placer gold. The chief charm to the explorer as well as the miner is found in the fact that he is working entirely new ground. This discovery may add to the already attractive list of large nuggets found in North Carolina.

Parties desiring special information on the territory described above would find either of the gentlemen named in the opening of this article, both conversant with the facts, and obliging in imparting the information.

Should this new field prove as rich in depth, and in surface gold, as the present indications would warrant, there may be looked for rather startling results when the various prospects shall have been equipped with suitable machinery.

### Florence.

A correspondent of the Montgomery, Ala., Advertiser, writing of Florence, says: The Florence Co., of which that "born leader," Hon. W. B. Wood, is the head and front, has already accomplished much and laid the foundation broad and deep and solid for a flourishing and lovely little city. Its new houses as well as its new streets and other material achievements are exceedingly creditable and prophetic of a great future for Florence. Its Wild Wood Park is destined some day to be a thing of beauty and a joy forever to Florentines and friends. Nature has been lavish in generous gifts—woodland and wave, hill and dale, romantic retreats and cosy knobs with imposing views of mountain and meadows and silvery streams and the great forest beyond so solemn and still. What more is needed to render Wild Wood Park leisure's loveliest resort in all the South? What more beside the skillful, liberal and patient manipulations of esthetic art? Nor is there anywhere a street possessing more splendid possibilities than the "Royal avenue" alias the Boulevard. It is four miles, or thereabout, in length; its graceful curves and gentle undulations and sloping elevations to the right and the left, fit it for the finest drives and the loveliest of sites—sites for elegant residences. Florence certainly does not lack for attractions to the people prospecting for Southern homes. And withal, the town is blessed—blessed far beyond what is generally allowed, as a point for industrial enterprises. Within easy reach the richest iron ore, in exhaustless abundance, is located. Coal is convenient and timber abounds, and limestone and water—water cool, limpid and pure—are there in measureless amounts. Already Florence counts five iron furnaces—the foundation of two being in course of construction, the three others are steadily getting in good shape for business. Other large enterprises are planning—some certain, others very uncertain. But enough has been done—enough is doing—enough is certain, to make Florence for the rest of the time, a place of no mean importance. The Florence Company that has done so much to enrich their town and themselves, deserve congratulation. The future fame and fortune of Florence are facts that are now fixed. Henceforth she will move steadily forward in the path of progress, and soon or late she will be seen from afar a conspicuous figure in the picture of the industrial South.

### Tempting Offer.

Jackson, Tenn., wants a \$200,000 cotton mill. Her citizens have subscribed \$66,665 and will donate a valuable site toward the enterprise. The entire product of the mill can, it is said, be sold within a radius of 60 miles of the city. Practical cotton mill people of means who desire the remainder of the capital stock, and who are competent to take charge of and run the mill, will do well to read advertisement on page 941.

### Erecting Planing Mill.

CHARLESTON, S. C., July 6, 1887.

#### Editor Manufacturers' Record:

We are now erecting a planing mill in this city, together with turning lathes, bracketwork and the like. The size is 75x125 feet; capacity about 15,000 feet dressed lumber per day. HOWE & BROWN.

ROME, GA., July 6, 1887.

#### Editor Manufacturers' Record:

The Printup City Land & Improvement Co., with principal office at Rome, Ga., and John C. Printup, manager, are contemplating the building of a street car line for Printup City, near Rome, Ga., at the junction of Rome & Decatur Railroad and East Tennessee, Virginia & Georgia R. R., to connect Printup City (a suburban village) with Rome, and also to erect an "inn hotel" at Printup City. Printup City is beautifully located on a high plateau. X. V. Z.

### Will Improve Lumber Mill.

KIRKLAND, ALA., July 5, 1887.

#### Editor Manufacturers' Record:

Will rebuild frame of mill, put in new carriage and set works, gang edger, planers and new friction feed.

UNION LUMBER CO.

### Machinery Wanted.

MARLIN, TEXAS, July 2, 1887.

#### Editor Manufacturers' Record:

The city of Marlin has determined to sink an artesian well (6-inch) and invites bids to complete the well, or prices on machinery for boring the same.

ALBERT HORNE, Chairman Water Com.

PIEDMONT, W. VA., July 6, 1887.

#### Editor Manufacturers' Record:

We have built 12 coke ovens, and if the coke proves all right and gives satisfaction will build quite a number of ovens.

A. G. DAVIS & BRO.

LOVETTSVILLE, VA., July 6, 1887.

#### Editor Manufacturers' Record:

A stock company is being organized for the building of a creamery and separator.

W. R. CHINN.

EL PASO, TEXAS, July 8, 1887.

#### Editor Manufacturers' Record:

I have the contract to erect an opera house for Mr. H. W. Myre, in El Paso, to cost \$60,000. CHAS. E. FRUIN.

### Dummy Engines Wanted.

ROME, GA., July 5, 1887.

#### Editor Manufacturers' Record:

The Rome Land Co. will purchase two dummy engines for their lines into their property. J. W. Rounsaville will give information. J. L. BASS.

ATLANTA, GA., July 5, 1887.

#### Editor Manufacturers' Record:

We propose to expend about \$10,000 on our club house. It will be exceedingly handsome and convenient.

DRIVING PARK ASSOCIATION.

### To Build a Street Railroad.

ANNISTON, ALA., July 5, 1887.

#### Editor Manufacturers' Record:

We are preparing to build a street car line here. ANNISTON CITY LAND CO., JNO. M. MCKLEROV, Pres.

AUGUSTA, GA., July 4, 1887.

#### Editor Manufacturers' Record:

We are now putting in three of the Hercules water wheels and hope to have them running in the next three weeks.

AUGUSTA FACTORY,

A. F. CROMBIE, Supt.



# CONSTRUCTION DEPARTMENT.

**WE PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.**

## ALABAMA.

Anniston.—The Mechanicsville Land Co., capital stock \$50,000, has been organized with J. M. Ledbetter as president, and J. H. Ledbetter, secretary and treasurer.

Anniston.—Efforts are being made to start a paint factory.

Atalla.—A reservoir is to be built. L. P. Brown can give particulars.

Bessemer.—G. M. Wells is organizing a stock company to manufacture fertilizers and chemicals.

Bessemer.—A railroad is to be built to Selma to be known as the Bessemer & Selma Railroad.

Bessemer.—William Tygert will organize a company to manufacture a patent medicine.

Birmingham.—The Morning Herald Publishing Co., capital stock \$60,000 has been organized with W. P. Pinckard as president; Rufus N. Rhodes, vice president; E. W. Linn, secretary and John W. Reid, treasurer.

Birmingham.—Earhart & Co. have completed their saw and planing mill and put it in operation. The daily capacity is 15 M feet.

Birmingham.—G. N. Wilson will receive bids for building two warehouses.

Birmingham.—The Alabama Automatic Water & Gas Co. has been organized with Fred. Sloss as president; J. E. DuBois, vice-president; H. M. McNutt, secretary and treasurer, and W. H. Rose, general manager. The capital stock is \$250,000.

Birmingham.—John McPoland has received the contract to build a sewer to cost \$29,000.

Blountsville.—The contract to build the courthouse, previously reported, has been let to Otto W. Puls at \$16,200.

Calera.—Messrs. Allen and Dinkens are organizing a company to manufacture agricultural implements.

Cedar Bluffs.—It is rumored that the Cornwall iron furnace will be put in operation by Samuel Noble, of Anniston, and others. If true, Mr. Noble can give particulars.

Clanton.—A hotel will be built by A. J. Massey, of Rockford.

Dacatur.—The name of the company previously reported as to build a railroad to Trinity Station, is the Decatur & Trinity Belt Line Railroad Co. The capital stock will be about \$50,000. The incorporators are Samuel Lile, John Lile, Joseph Shackelford, F. M. Davis and others.

Decatur.—The Decatur Land, Improvement & Furnace Co. have commenced work on the large hotel, previously reported.

Florence.—The Cypress Water Works Co., previously reported, have organized with Andrew Brown as president; M. B. Shelton, vice-president and J. B. White, secretary and treasurer.

Florence.—A steam laundry will be erected at once. William R. Barks can give information.

Florence.—The plant of the Union Wood Dish Co., of Chattanooga, Tenn., will shortly be moved to Florence. This is the same as the factory lately reported as contemplated by H. W. Russell.

Gadsden.—The Gadsden Water Works Co. will soon spend \$4,000 in improving their works.

Helena.—It is rumored that a large number of coke ovens will be built.

Hull.—Maddox & Co., reported last week as purchasing timber lands and to build a saw mill, will also build a tram road.

Leeds.—Stewart & Ricketts have purchased machinery to start a brick-yard.

Mobile.—William Smith has the contract to build 5 miles of railroad. He has commenced work.

Mobile.—Adam Glass has purchased the Mobile Cotton Mills. He will sell the cotton machinery and put in machinery to extensively manufacture furniture.

Mobile.—P. E. Brooks is prospecting with a view to purchasing or erecting a lumber mill.

Mobile.—The New York & Mobile Steamship Co. has been chartered in New York by Henry D. Haven, Willis J. Best, Frank Rudd, Erastus H. Barnes, Horace C. Burrows, B. F. Blair and John B. B. Fiske.

Montgomery.—A stock company will be organized to erect a box factory. The Montgomery Land & Improvement Co. can give information.

Montgomery.—J. L. Friedman, of Paducah, Ky., previously reported as to build a vinegar factory, has, with others, incorporated the Friedman Vinegar & Cider Works. The capital stock is \$37,500. J. W. Durr, Jr., is president, and J. C. Haas, secretary and treasurer.

Montgomery.—J. A. Shingleur, of Columbus, Ga., reported last week as contemplating erecting a cotton factory, will, with others, build a factory of not less than 10,000 spindles capacity. They expect to have it running in less than a year.

Montgomery.—The Montgomery Land & Improvement Co., are negotiating for the establishment of a fertilizer factory.

Montgomery.—Albert Gimbel has lately started a broom factory at 107 South Court street.

Oxford.—A stock company has been formed to build a large cotton warehouse. W. A. Porter can give information.

Perdido.—The Baldwin Lumber Co., lately reported as building saw and planing mills, will build a pole road.

Rock Run.—The Bass Furnace Co. are surveying a railroad which they contemplate building. It will be 11 miles long.

Selma.—The Naval Foundry Co. has been incorporated with Daniel S. Troy as president; Edward G. Gregory, secretary and R. M. Nelson, treasurer. The company will probably establish manufactories.

Sheffield.—J. B. Coleman, of Livingston, has the contract to build 40 houses.

Sheffield.—The Sheffield Land, Iron & Furnace Co.; the Alabama & Tennessee Coal & Iron Co.; the Sheffield & Birmingham Railway Co.; the Lady Ensley Furnace Co.; the Alabama Improvement Co., and the Sheffield Furnace Co. will hold a meeting July 22 to consider consolidating.

Talladega.—John W. Bishop, J. A. Powe, J. A. Huey, George P. Anderton and J. T. Dumas will organize a company to build an iron furnace.

Tuskaloosa.—George W. Haskell has the contract to bore for coal for the Tuskaloosa & Castle Hill Real Estate & Manufacturing Co.

Tuskaloosa.—The Tuskaloosa Oil Mills Co. will add a large cotton ginnery to their works.

## ARKANSAS.

Alexandria.—A coal mine is being opened on the land of Frank Findley.

Atkins.—A large factory is reported to be built. If correct, J. W. Harrison can probably give information.

Bear.—The Ozark Mining Co. contemplate purchasing a smelter as soon as they have had an extensive run made by the Moffett smelter.

Black Springs.—The Central Continental Gold & Silver Mining Co. are preparing to purchase and erect smelters.

Fordyce.—Acruman & Son will enlarge their laboratory and put in new machinery. They want to correspond with manufacturers of glass bottles and wooden and paper boxes.

Fort Smith.—George Tilles, E. E. Bryant, A. D. Holstein and Joseph Straindler, of New York, have purchased 150 acres of land near Fort Smith. They will build a street railroad through the property.

Helena.—It is rumored that Schoolfield, Hanover & Co., of Memphis, Tenn., will erect a cotton compress.

Helena.—The Helena Oil & Compress Co. are making extensive repairs to their cottonseed oil mill.

Hot Springs.—The Walnut Fork Mining & Smelting Co. has been formed by J. J. Sumpter, W. A. Moore, George W. Watson, Frank Stearns, Hiram Whittington, A. Whittington and others.

Hot Springs.—E. Hogaboom, E. F. Klein, W. A. Eisele, W. W. Wright and J. W. Coyles have chartered the Hot Springs Electric Light Co., capital stock \$50,000.

Hot Springs.—Powell Clayton will erect a brick building to cost \$15,000.

Hot Springs.—Berry & Bennett have purchased and are developing mineral lands.

Hot Springs.—The Davy Crockett Mining & Smelting Co. has been organized with J. L. Bowers as president; Jacques Braun, vice-president; Charles Eisele, secretary, and E. S. Rockwood, treasurer. The authorized capital stock is \$3,000,000.

Huntsville.—Mineral lands near Huntsville have been leased for development.

Little Rock.—John D. Adams, J. F. Boyle, J. R. Miller and Samuel B. Adams, of Little Rock, and James M. Kellar and E. W. Rector, of Hot Springs, have incorporated the Little Rock & State Line Railroad Co., to build a railroad from Little Rock to the Indian Territory, 160 miles. The capital stock is \$3,000,000.

Little Rock.—The Old Town Railroad Co. will, it is said, be incorporated.

Little Rock.—It is rumored that the Memphis & Little Rock Railroad Co. will extend their road to Dallas, Texas.

Mountain Home.—Anglin & Jordan are erecting a corn mill and a cotton ginnery. Have purchased necessary machinery.

Mount Ida.—A saw and grist mill has been erected by Pool & McBride.

Pine Bluff.—G. W. Davis and T. A. Hill will erect a cotton ginnery.

Pine Bluff.—A mining company, with an authorized capital stock of \$1,000,000, is being organized.

Pine Bluff.—The Southwestern Light & Power Co. are, it is stated, building new gas works, &c.

## FLORIDA.

Chipley.—Lewis Wiseloge, of Albion, Mich., and Frederick Wiseloge, of Indianapolis, Ind., have secured a site for the erection of a fertilizer factory.

Crystal River.—The Dixon Pencil Co. are building a mill.

De Funiak Springs.—It is reported that Mr. Martin proposes to build a woolen mill.

Green Cove Springs.—A brick-yard will probably be started soon.

Jacksonville.—A cotton warehouse, 100x250 feet, will be built soon.

Jacksonville.—St. Paul's Church will erect a new edifice to cost not less than \$12,000.

Key West.—A large cigar factory will be erected on White street by Mr. Toledo.

Ocala.—Mr. Taylor is moving his saw mill from Sparr to Ocala.

Pensacola.—It is reported that G. A. Karweise has been in Pensacola investigating the feasibility of establishing a large plant for building iron ships, manufacturing machinery, &c.

Pensacola.—The Pensacola & Memphis Railroad Co., previously reported, have organized with L. H. Sellars, as president; E. Watkins, vice-president; S. N. Van Praag, secretary, and S. C. Cobb, treasurer. It is reported that work on the road will be commenced within 60 days.

Punta Gorda.—It is reported that a cigar factory will be started by parties from Key West.

Rosewood.—There is talk of a cedar mill being erected. Little & Chapman can probably give information.

Sanford.—The South Florida Railroad Co. and the Jacksonville, Tampa & Key West Railway Co. (office, Jacksonville,) will build a union depot.

St. Augustine.—Mr. Flagler contemplates building a large jail.

Summerville.—Flour mill machinery has been purchased by John Flouring.

Titusville.—A steam laundry will be started by John Allen.

## GEORGIA.

Abbeville.—A \$5,000 stock company has been formed to encourage the starting of manufactures. H. C. McDonald can probably give information.

Adairsville.—J. T. Waldrop has received the contract to build a church for the Methodists.

Americus.—There are prospects of an agricultural implement factory being established. H. C. Bagley can give information.

Atlanta.—Bills have been introduced in the legislature to incorporate the St. Mary's, Satilla & Turtle River Canal Co.; the Brunswick & Atlanta Railroad Co., capital stock \$1,000,000, with W. E. Kay, C. P. Goodyear and U. Dart, of Brunswick, and A. H. Cox, of Atlanta, as incorporators; the Atlantic, Atlanta & Great Western Railroad & Navigation Co., capital stock \$25,000,000, to build a railroad from the Savannah river to Sheffield, Ala., with George T. Fry, J. M. Bradley, D. O. C. Henry, J. S. Hutchison and H. G. Hutchinson as incorporators; the Tennessee, Carolina & Georgia Railroad Co., capital stock \$100,000, to build a railroad from Cornelia to Locust Stake, N. C.; the Dupont, Macon & Florida Railroad and the New Life Water Power & Granite Railroad Co., to build a railroad from Conyers to some point on the East Tennessee, Virginia & Georgia Railroad.

Atlanta.—The contract for the inside wood work of the new capitol has been let to the Mitchell Furniture Co., of Cincinnati, O., at \$59,750.



Atlanta.—J. H. Holbrook wants to purchase a 25 horse-power saw mill outfit, also wood-working machinery. Address care W. L. Holbrook.

Atlanta.—The Atlanta Artillery contemplate building an armory.

Augusta.—Sprinkling machinery will be put in the Algernon (cotton) Mills.

Augusta.—The Augusta Electric Light Co. have ordered additional engines, dynamos, &c., for their plant.

Brunswick.—The capital stock of the Georgia Sawdust Chemical Co., reported last week as incorporated is to be \$200,000. The incorporators are J. G. Fountain, Frank W. Mitchell, George Walker and others.

Columbus.—The Columbus Street Railroad Co. contemplate running their cars by steam or electricity.

Concord.—L. E. Key has moved his saw mill to Concord.

Concord.—J. J. Lee will build a cotton warehouse.

Holly Springs.—Marble quarries near Holly Springs are to be developed, and a two-mile railroad will be built to the quarries. Surveys are being made.

Lovett.—Thomas & Ussery have purchased machinery for a saw mill.

Macon.—J. Dannenburg will erect a \$25,000 building, and the Telegraph & Messenger Publishing Co. will erect a three-story brick building on Cherry street.

Ophir.—The report referred to last week that the Franklin & McDonald Mining Co. contemplated erecting a cotton factory is incorrect. They are enlarging mining operations, and have lately put new machinery in a new mine.

Rome.—The Printup City Land & Improvement Co., reported last week, contemplate building a street railroad and a hotel.

Rome.—R. T. Armstrong, of Birmingham, Ala., is arranging to build a hotel corner of Howard and Court streets, to cost \$125,000. Plans are being prepared. It will be five stories, 90x174 feet.

Savannah.—Messrs. Kersten and Kramer, of Charleston, S. C., have made a proposition to start a brewery.

Savannah.—Gude & Burchell have received the contract to build the Columbia (Ala.) extension of the Central Railroad, previously reported.

Senora.—Joseph Boyd, of Griffin, and others are organizing a company to establish a guano factory and a cotton ginnyery.

Stearnesville.—Mr. Dunn, president Atlanta & Hawkinsville Railroad Co. will probably build a fine hotel.

Tallapoosa.—Mr. Gentillias has secured 15,000 acres of mineral lands near Cedar-town for parties who will, it is stated, build furnaces.

Tallapoosa.—The Tallapoosa Electric Light Co., capital stock \$10,000, has been chartered by R. L. Spencer, A. I. Head, H. C. Dean, A. J. McBride, Gordon W. Hull and others.

Tallapoosa.—I. M. Watson, R. L. Spencer, Lloyd Thomas, J. H. Plummer, H. C. Dean, J. P. Miller and others have chartered the Tallapoosa Water Works Co., capital stock \$10,000.

Tallapoosa.—The Tallapoosa Land, Mining & Manufacturing Co., capital stock \$2,000,000, has been organized with George W. Adair, of Atlanta, as president; D. Carlton, Hartford, Conn., treasurer, and J. H. Plummer, of New York, assistant secretary. The object of the company is to buy, sell and improve lands, engage in mining and manufacturing, &c. Will build a 200-room hotel.

Turin.—C. J. Harris, J. D. Hunter, F. Arnold and others will form a company to build a guano factory.

Woodbury.—It is reported that John M. Williams & Co., of Griffin, will build a guano factory.

#### KENTUCKY.

Covington.—G. F. Card, H. K. Lindsey, George W. Howell, Thomas F. Corry, W. A. Detrick, W. H. Mackoy and others have incorporated the Card Electric Brake Co. The authorized capital stock is \$1,000,000.

Covington.—Albert J. Bandle and Benjamin Teipel have incorporated the Kentucky Target Co., capital stock \$2,000, to manufacture targets, traps &c.

Covington.—Proposals for building an engine house and aqueduct will be received until July 22 by James Spilman.

Hopkinsville.—The Hopkinsville Street Railway Co., previously reported, will at once begin work on their road.

Kentucky.—Shofner & Green will erect saw mills in Eastern Kentucky to cut walnut lumber.

Lewisport.—A planing mill has lately been built.

Lewisport.—A coal mine is reported to be opened near Lewisport.

Louisville.—Sheridan H. Soble, William Shoemaker and William D. Sowle have incorporated the Louisville Novelty Co., capital stock \$10,000, to manufacture and sell tinware, &c.

Louisville.—The Clark Mal eable Iron & Steel Works, lately reported as incorporated, have increased their authorized capital stock from \$200,000 to \$500,000.

Louisville.—S. E. English, N. L. Johnson, Samuel H. Garven, Charles Warren, William F. Wood and others have incorporated the Fisherville National Gas & Mining Co. The authorized capital stock is \$1,000,000.

Louisville.—John A. Stratton and others will organize the West View Land & Improvement Co.

Louisville.—An addition will be built to the Home of the Friendless, to cost about \$17,000.

Motier.—A flour mill will be erected by J. H. Carnes.

Newport.—The name of the electric light company reported last week is the Kentucky Electric Co. The capital stock is \$200,000. Julius Balke is interested.

Owensboro.—H. D. Fitch and others, of Louisville, have bought the Owensboro Gas Works and will, it is said, make extensive improvements.

Owensboro.—The daily capacity of the flour mill of Davenport & Bransford will be increased from 115 barrels to 140 barrels.

Paris.—A company is being formed to prospect for oil.

Richmond.—The Forest City Petroleum, Gas & Drilling Co., Wiser Bros., Cleveland, O., managers, have the contract to drill wells at Richmond, Bardstown and Frankfort.

Somerset.—A \$250,000 oil and gas company has been formed. A. A. Lewis can probably give information.

Winchester.—A proposition has been made to build water works.

#### LOUISIANA.

Alexandria.—S. S. Ingram, of Plaquemine, is making arrangements to build a planing mill and a tank and cistern factory.

New Orleans.—Henry Warner and Henry Roder are establishing a rice mill, to be known as the Southern Rice Mill.

New Orleans.—E. L. Ranlett contemplates organizing a company to build large works for manufacturing cordage and fabrics.

#### MARYLAND.

Baltimore.—The Citizens Passenger Railway Co. will build large new stables on Fulton avenue.

Baltimore.—Walsh & Sons will put a 100 horse-power boiler and engine in their planing mill on Maryland avenue.

Breathesville.—J. Q. A. Kemp has put some new machinery in his flour mill.

Catonsville.—The Catonsville Water Co., previously reported, has been organized with Joseph M. Cone as president; Melvin Cone, secretary, and C. G. Macgill, treasurer.

Ellicott City.—The Baltimore & Ohio Railroad Co. will build a bridge across the Patapsco river.

Hagerstown.—Mill machinery has lately been purchased by M. O. Ditto.

Hampstead.—Michael S. Brillhart will refit his flour mill with roller machinery.

Highland Station, (P. O. at Pylesville).—The Presbyterians will build a church.

Mill Green.—Charles Biles is repairing his saw mill and putting in new water wheel.

Rocky Ridge.—The flour mill of William Biggs & Son has lately been remodeled.

Seneca.—Darby, Upton & Co. have bought some new machinery for their flour mill.

Washington, D. C.—The National Pressed Brick Co. have, it is stated, erected new works.

Washington, D. C.—The Holly Manufacturing Co., of Lockport, N. Y., have received the contract to furnish the Washington water works with 2½ million gallon pumping engines, boilers, &c.

Washington, D. C.—D. B. Harmony, chief of bureau of yards and docks, will receive new bids for building the dry dock at Norfolk, Va., previously reported. It is to be 125x480 feet.

#### NORTH CAROLINA.

Archdale.—J. M. Worth has bought a saw mill and a spoke and handle factory which have been idle for some time, and will put them in operation.

Asheville.—Parties are corresponding with Henry T. Collins with a view to erecting the planing mill and wood-working factory lately reported.

Camden C. H.—H. C. Carrison has purchased machinery for a flour mill.

Durham.—Emilio E. Cavaleri and Mr. Gresham are organizing a company to build an ice factory.

Durham.—Ellington, Royster & Co., of Raleigh, N. C., have received the contract to build the courthouse, previously reported. It will cost \$19,000.

Fayetteville.—It is rumored that a cotton compress will be erected.

Germantown.—H. A. Morris is building a new flour mill. Has purchased the machinery.

Goldsboro.—There is talk of a cotton compress being erected.

Greensboro.—A large roller flour mill is projected.

Lincolnton.—Tidley & Bro. contemplate erecting another wood-pulp mill.

Murphy.—A planing mill will be erected and a brick-yard started. L. E. Campbell can give information.

Shelby.—S. McD. Tate, A. C. Avery and Mr. Wilson will build a railroad from Shelby to Cranberry. They have contracted to begin surveying September 1 and begin grading November 1.

Shelby.—E. A. Morgan, E. H. Wright, D. D. Suttle and W. A. Wray will erect a cotton factory of 2,000 spindles capacity.

Statesville.—Henry Mills has commenced work on a furniture factory, 25x100 feet.

#### SOUTH CAROLINA.

Charleston.—M. W. Powers has received the contract to build a theatre.

Columbia.—The Columbia, Newberry & Laurens Railroad Co. will shortly advertise for bids for building approaches to the Broad river bridge.

Greenville.—W. A. Wright, reported last week as negotiating for the erection of a Brush electric light plant, will erect the plant by September 1.

#### TENNESSEE.

Bristol.—Fred Balcom, of Harrisburg, Pa., will probably build an ice factory.

Bristol.—The Sparger Steel Compound Co., reported last week as organized with W. A. Sparger as president, will manufacture the steel compound and paints. Have selected a site for a factory.

Chattanooga.—The Standard Machine Co., of Bay City, Mich., will shortly remove their machine works to Chattanooga and enlarge their capacity.

Chattanooga.—The Ground Squirrel Mining & Milling Co., capital stock \$500,000, has been chartered by A. W. Taylor, George B. Penrock, Arthur L. Terry, W. S. Williams and A. H. Seymour. Operations will be carried on in Colorado.

Chattanooga.—D. J. Chandler has received the contract to erect 4 buildings to cost about \$14,000.

Clarksville.—The Arlington Hotel Co. have let the contract to build their hotel, previously reported, to Bailey & Koerner, of Henderson, Ky.

Clarksville.—Block Bros. have commenced work on a 3-story building, 40x180 feet.

Dickson County.—Bronson & Lowry, of New York, have purchased mineral lands.

Jasper.—A saw and planing mill has been erected by J. W. Preston.

Johnson City.—S. T. Harris will erect a bank building.

Knoxville.—Charles Phifer has purchased machinery for a shuttle block factory.

Knoxville.—M. J. Hatcher, of Macon, Ga., will organize a stock company at some place in Tennessee to manufacture his patent iron wagon. The capital will probably be \$100,000.

Knoxville.—The city will shortly decide by a popular vote whether or not to subscribe \$275,000 to the Knoxville Southern Railroad and \$225,000 to the Powell's Valley Railroad. If the subscription is made the Powell's Valley Railroad Co. will at once build their road.

Leesburg.—John T. Bayless and W. H. Lovegrove are developing zinc mines.

Maryville.—A brick planing mill is being erected by Jones & Willard.

McMinnville.—E. P. Reynolds will add machinery to his heading and stave factory to manufacture barrel hoops.

McMinnville.—The Ben Lomond Land & Hotel Co. has been organized, with J. B. Ritchey as president, and Frank Colville, secretary and treasurer. Will build a hotel.

Memphis.—M. J. Palmer is organizing a stock company to manufacture soap.

Newmarket.—A corn mill is being erected by M. L. Dick.

Oliver Springs.—The president of the Waldens' Ridge Railroad Co. (office at Jenk's) states that their road will at once be extended to Knoxville or Clinton.

Ooltewah.—W. C. Thatcher has purchased some new machinery for his mill.

Shelbyville.—F. S. Landers is testing fire clays.

Shelbyville.—A company is being formed to develop iron ore lands.

Shelbyville.—Patrick Kervin has the contract to sink a well for the Shelbyville Natural Gas & Oil Co.

Sweetwater.—The Sweetwater Mills Co. have ordered machinery to increase the capacity of their flour mill.

#### TEXAS.

Abilene.—The Abilene Flour Mills are being enlarged.

Beaumont.—The Baptists will build a new church. Barnes & Palliser, of Galveston, have the contract for the brick work.

Corsicana.—The factory of the Corsicana Ice Co. will be enlarged and improved.

Dallas.—The Dallas Passenger Transfer Co., capital stock \$15,000, has been incorporated by W. H. Keller, W. E. Keller, J. M. Dorris, B. H. Brooks, O. M. Connally and others.



Dallas.—The Texas Medical Publishing Co., capital stock \$3,000, has been incorporated.

Farmersville.—The Farmersville Flouring Mills have lately been refitted with roller machinery.

Fisher.—Machinery has been purchased for a feed mill and cotton gin.

Fort Worth.—B. F. Avery & Sons, of Louisville, Ky., have contracted to build large warehouses and shops. Have purchased a site.

Goldthwaite.—J. W. Martin, John M. Forehand, A. McPherson, George Whittaker and others will purchase machinery to sink an artesian well.

Graham.—J. E. Ryus is purchasing machinery to develop paint mines.

Graham.—A marble quarry will be developed. J. E. Ryus can give particulars.

Greenville.—The Hunt County Farmers' Alliance will build a roller flour mill soon.

Marble Falls.—The Marble Falls Alliance University has been chartered. Will erect buildings.

Marble Falls.—A street railroad is to be built. A. R. Johnson can give particulars.

Marble Falls.—Gas works are reported to be built. A. R. Johnson can give particulars.

San Antonio.—George W. Russ, J. W. Moon, H. B. Andrews, L. W. Florea and Thad W. Smith have chartered the West End Street Car Co., capital stock \$50,000.

Sherman.—A committee has been appointed to secure plans and specifications for a city hall to cost not less than \$10,000.

Sherman.—The Washington Iron Works have, it is stated, been enlarged and improved.

Sherman.—It is reported that the Eagle Mills have been enlarged and improved at a cost of \$8,000.

Taylor.—A stock company has been formed to build a grain and cotton warehouse, 100x200 feet. P. O. Wilson can probably give information.

Weatherford.—The city council are negotiating for the building of gas works.

#### VIRGINIA.

Fredericksburg.—Some new machinery has been put in the flour mill of Myers & Brulle.

Ivanhoe Furnace.—It is reported that negotiations are being made for the erection of a furniture factory.

Liberty.—Rowland D. Buford contemplates building a hotel at his mineral springs.

Lovettsville.—A stock company is being organized to start a creamery. W. R. Chinn can give information.

Lynchburg.—Theodore P. Brown of the Worcester Organ Co., Worcester, Mass., proposes to establish an organ factory if sufficiently encouraged.

Portsmouth.—A saw mill will be built at the U. S. navy yard.

Richmond.—The Old Dominion Iron Works have purchased the plant of the Walker Horse Shoe Co., of Baltimore, Md.

Russell County.—A. White, Joseph S. Gillespie and others have opened a coal mine on Dump's creek.

Suffolk.—The Suffolk Manufacturing Co. have recently put new machinery in their cotton mill.

Warrenton.—James W. Parr has purchased roller machinery to remodel his flour mill.

#### WEST VIRGINIA.

Charleston.—R. Guill and others will receive bids for building a school until July 18.

Charleston.—A natural gas company, of which W. S. Edwards is president, have sunk a well 8 miles from Charleston, and will sink several other wells.

Grafton.—The Commercial Hotel, lately burned, will be rebuilt.

Grafton.—Mr. Braullman will build an opera house 55x70 feet.

Grafton.—George W. White will probably rebuild his cigar factory reported in this issue as burned.

Piedmont.—A. G. Davis & Bro. have built 12 coke ovens, and will build more if results are satisfactory.

#### BURNED.

Baltimore, Md.—The furniture factory of W. V. Wilson, Jr., & Co.; loss about \$7,000.

Gainesville, Ga.—The mill of T. J. Merritt, 5 miles from Gainesville.

Goldsboro, N. C.—The saw mill of Willis P. Hall.

Grafton, W. Va.—The cigar factory of George W. White. Will probably be rebuilt.

Louisville, Ky.—The show case factory of Louis Schurmann; loss \$5,000.

Richmond, Va.—The tobacco stemmery and prize factory of James N. Boyd & Co.; loss \$25,000.

Tavares, Fla.—The Tavares Saw & Planing mill owned by Charles Joy, of Orlando; loss \$12,000.

#### To Manufacture Paints.

BRISTOL, TENN., July 11, 1887.

*Editor Manufacturers' Record:*

The Sparger Steel Compound Co. has been organized with a capital stock of \$100,000, with W. A. Sparger as president; Hal. H. Haynes, secretary, and E. W. King, treasurer. In addition to the steel compound the company will also manufacture paints. The factory site has been located near the union depot and has splendid railroad and water facilities. The company owns large mineral interests near Bristol. W. A. SPARGER.

#### To Manufacture Medicines.

LOUISVILLE, KY., July 11, 1887.

*Editor Manufacturers' Record:*

We expect to start up the medicine business just as soon as we possibly can. We have already made corporation, composed of the Bull brothers. We expect to be in full blast by September 1 under the name of E. BULL MEDICINE CO.

#### Receiving Bids for Building School.

COLUMBUS, GA., July 6, 1887.

*Editor Manufacturers' Record:*

We are taking bids for the erection of a ten-room school-house, with superintendent's room and library additional. The building is to be brick, to cost about \$16,000, and accommodate 500 pupils. JAS. SMITH.

FLORENCE, ALA., July 10, 1887.

*Editor Manufacturers' Record:*

The plant of the Union Wood Dish Co., of Chattanooga, Tenn., (capital stock \$30,000) will be moved here soon as buildings can be erected, but style of name will be changed. The factory will turn out wire end butter dishes, fruit and berry boxes, etc. H. W. RUSSELL.

ANNISTON, ALA., July 8, 1887.

*Editor Manufacturers' Record:*

The Mechanicsville Land Co. has been organized, with \$50,000 capital stock, all taken. J. M. Ledbetter is president, and J. H. Ledbetter, secretary and treasurer. J. M. CALDWELL.

ASHEVILLE, N. C., July 6, 1887.

*Editor Manufacturers' Record:*

Mr. Henry T. Collins, late of Cleveland, Ohio, has bought property here and is talking of building a roller flour mill and an ice factory, but has not fully decided. C. E. GRAHAM.

#### Will Build a \$25,000 Church.

FORT WORTH, TEXAS, July 8, 1887.

*Editor Manufacturers' Record:*

My congregation will begin in August the erection of a \$25,000 church out of white limestone, rough ashler work. The building will consist of auditorium, music room, lecture hall, library room, parlors, ladies' and gents' private rooms, &c. It will be completed in one year. R. M. TINNON.

#### Will Erect Wood-Working Factory.

GRIFFIN, GA., July 8, 1887.

*Editor Manufacturers' Record:*

I shall erect the buildings for my sash, blind and door factory in August. My buildings will be 30x60 feet, with an L 40x60 feet. Shall run variety shop, with planing mill, making mouldings, brackets, balusters, &c. Have been running similar work for last eight years at Whitesbury, 47 miles west of here, from whence I am moving. W. C. AYCOCK.

#### To Build Water Works.

WATERTOWN, N. Y., July 9, 1887.

*Editor Manufacturers' Record:*

We propose to build water works at Spartanburg, S. C., and also at Goldsboro, N. C., during the present season. MOFFETT, HODGKINS & CLARKE.

#### Saw Mill.

ATLANTA, GA., July 9, 1887.

*Editor Manufacturers' Record:*

Messrs. Thomas & Ussery, of Lovett, Ga., have purchased of Russell & Co. one 20 horse-power saw mill outfit. J. W. DUNN.

#### Developing Oil Lands.

NACOGDOCHES, TEXAS, July 6, 1887.

*Editor Manufacturers' Record:*

The Southwestern Petroleum & Mineral Developing Co. are boring for oil here and receiving bids for operations to be commenced on their leased lands near Palestine, in this State. REV. S. WETTERMARK, Prest.

#### New Pumping Machinery.

WASHINGTON, D. C., July 13, 1887.

*Editor Manufacturers' Record:*

The contract for a 2½ million pumping engine and boiler for the water works has been given to the Holly Manufacturing Co., of Lockport, N. Y. H. F. HAYDEN.

NEWPORT, KY., July 11, 1887.

*Editor Manufacturers' Record:*

A company was organized under an act passed by the last general assembly of Kentucky, (An Act to incorporate the Kentucky Electric Co.) The capital stock is \$200,000. Principal stockholder in the company is Mr. Julius Balke. The company has received the right to operate in this city. J. J. HETSCH.

TUPELO, MISS., July 9, 1887.

*Editor Manufacturers' Record:*

E. H. Anderson, of New Orleans, and myself are undertaking to organize the Tupelo Hotel Co. The Mobile & Ohio R. R. and the Kansas City, Memphis & Birmingham R. R. are reported as deciding to build a union depot at this place. C. H. CLIFTON.

YAZOO CITY, MISS., July 9, 1887.

*Editor Manufacturers' Record:*

The Yazoo Warehouse Co. is organized to build a cotton warehouse to store 3,000 bales of cotton. The capital stock is \$15,000. J. F. Powell is president; J. H. Barnwell, vice-president, and E. S. Crane, secretary. Warehouses to be completed by October 1st. J. F. P.

#### To Build a Cotton Factory.

COLUMBUS, GA., July 9, 1887.

*Editor Manufacturers' Record:*

It is our purpose, with the assistance of the good people of Montgomery, Ala., to build at Riverside Park a cotton mill of not less than ten thousand spindles. The encouragement we have already received justifies us in saying almost positively that the mill will be running in 12 months or less. J. A. SHINGLEUR.

#### Another Cotton Factory to be Built.

SHELBY, N. C., July 11, 1887.

*Editor Manufacturers' Record:*

Shelby's new cotton factory, owned by Messrs. Blanton, Oates and Miller Bros. will soon be ready to spin cotton. This enterprise will be followed by another cotton factory, which Messrs. E. A. Morgan, E. H. Wright, D. D. Suttle, and W. A. Wray, all of Shelby, N. C., propose to erect. They propose to have 2,000 spindles in Shelby. SHELBY AURORA.

#### Machinery Wanted.

ATLANTA, GA., July 9, 1887.

*Editor Manufacturers' Record:*

Mr. J. H. Holbrook, of Atlanta, Ga., and Orlando, Fla., is desirous of purchasing a 25 horse-power saw mill outfit; also wood-working machinery. Letters will reach here addressed in care of W. L. Holbrook, grocer. Mr. Jno. G. Sage, contractor and road builder of this city, has purchased one of Russell & Co's. 10 horse-power traction engines. He will do away with mules and horses, this engine doing the same work and more of it cheaper than live stock. J. W. DUNN.

#### Brick Works.

TUSKALOOSA, ALA., July 9, 1887.

*Editor Manufacturers' Record:*

J. J. Harris & Co. have located a brick plant at Tuskaloosa. The brick made at Tuskaloosa are confessed to be of very superior quality, and there is every prospect of the place becoming a large center of brick making. Fine clays continue to be found all around the town, and the establishment of a large fire-brick plant is a matter of the near future, and the probability is strong that crockery and chinaware will also be made here, so apparently pure and absolutely free from iron stain are the kaolins and clays. J. W. CASTLEMAN.

#### To Build Houses.

TALLEDEGA, ALA., July 9, 1887.

*Editor Manufacturers' Record:*

We expect to contract for 60 or 75 houses soon. TALLADEGA LAND & IMP. CO.

#### Will Increase Capacity.

BIRMINGHAM, ALA., July 7, 1887.

*Editor Manufacturers' Record:*

The Avondale Stove & Foundry Co. will add several lines of specialties to their work and materially improve their present producing capacity. AVONDALE STOVE & FOUNDRY CO.

#### Building New Shops.

AUGUSTA, GA., July 8, 1887.

*Editor Manufacturers' Record:*

The Georgia Railroad Co. is building new car repair shops. J. W. GREEN.

OXFORD, ALA., July 9th, 1887.

*Editor Manufacturers' Record:*

A three-story brick hotel is going up here; the walls are built and the other work is being done. A large cotton warehouse is to be built at once; the stock is all taken. W. A. PORTER.



**Machinery Wanted.**

SALEM, N. C., July 12, 1887.

*Editor Manufacturers' Record:*

We have an inquiry for a veneer cutting machine for cutting veneer for furniture from the more valuable wood, and, as we do not see anything of this kind advertised in your journal, we would be glad to have, from the manufacturers, full descriptive circulars and prices.

SALEM IRON WORKS.

**Brick Works.**

BIRMINGHAM, ALA., July 7, 1887.

*Editor Manufacturers' Record:*

We are engaged in the construction of brick works at Bessemer, Ala., with a capacity of 40,000 per day, and contemplate having same in operation about 15th of August.

GEO. G. HUGHES &amp; SHARPLEY.

PALESTINE, TEXAS, July 9, 1887.

*Editor Manufacturers' Record:*

The Palestine Mining & Petroleum Co. is organized and will begin work this fall.

GEO. A. WRIGHT.

SWEETWATER, TENN., July 11, 1887.

*Editor Manufacturers' Record:*

We are increasing capacity a little and have contracted for the machinery.

SWEETWATER MILL CO.

HOLLY SPRINGS, GA., July 11, 1887.

*Editor Manufacturers' Record:*

I am now at work developing the Micou gold mine.

J. O. ROBERTSON.

THE Anniston (Ala.) Hot Blast says Anniston needs a chain factory, and that the necessary capital could be readily secured. There would be a large home demand for the chains. Where is the practical man who will go down there and organize and operate such an enterprise? About two years ago a young man in York, Pa., who understood the chain business went to Birmingham and readily secured the money needed for small chain works. From the very start business poured in on the concern, necessitating several enlargements, and the enterprise has, we understand, been a great success. Anniston wants a similar enterprise.

**THE Birmingham Age says:**

"The Louisville & Nashville Railroad Co. has a corps of engineers in the field surveying a line for the extension of the Mineral road to Tuskaaloosa. It is reported that work on the extension will begin as soon as the route is located and that trains will run to Tuskaaloosa by the time the Huntsville extension is completed. The proposed extension will be of great benefit to Birmingham, and will no doubt be hailed with delight by the citizens of Tuskaaloosa."

This road will give Tuskaaloosa parallel and competing lines to Birmingham. It will pass through large bodies of splendid coal lands, owned by the Tuskaaloosa Coal, Iron & Land Co.

THE directors of the Sheffield Land Co., Alabama & Tennessee Coal & Iron Co., Sheffield & Birmingham Railroad Co. and Sheffield Furnace Co. met July 8 at Monteagle and, it is understood, agreed to consolidate. A meeting will be held at Sheffield on the 29th inst. to conclude arrangements. The consolidated company will be capitalized at \$10,000,000.

THE Tallapoosa Land, Mining & Manufacturing Co. has recently been organized with a capital stock of \$2,000,000 to develop the industrial interests of Tallapoosa and the surrounding country. The company is composed of Southern and Northern capitalists, and it is promised that active steps will be taken to build up new enterprises. A large display of minerals is to be made by the company at the Piedmont Fair.

MR. J. L. YOUNG, secretary of the Athens Mining & Manufacturing Co., of Athens, Tenn., writes us:

"I will visit the Northwest in August, and would like to make terms with manufacturers desirous of moving South. I can offer the most liberal inducements in the way of taking stock or cash bonus. Parties desiring to move South, or to erect new factories, will do well to correspond with me."

THE Jarvis Engineering Company, Boston, Mass., report their business as very brisk. They have about finished enlarging the Edison station No. 1, and will start on the Edison station No. 2 soon. The Brockton Edison station is nearly completed. They have received orders to set the third tubular boiler with the Jarvis Furnace for the Edison Illuminating Company, New Bedford, Mass. The New Haven Electric Light Company, New Haven, Conn., have given them the order to set the fifth tubular boiler with the Jarvis Furnace. They have received the order to install a complete steam plant for the Southbridge (Thomson-Houston Company) Electric Light Company, setting two tubular boilers with the Jarvis Furnace using Sheffield grates, and have sold them two Armstrong & Sims Company engines. The fuel for this station will be wet sawdust and shavings. They have received the order to set three boilers for the Middletown Electric Light Company with the Jarvis Furnace. They have received an order to install a large Thomson-Houston Company plant at Jamestown, N. Y., selling them two large engines and setting two boilers with the Jarvis Boiler Setting to burn natural gas as fuel. They have sold the second Armstrong & Sims Co. engine to the Newton Electric Light & Power Co., who will put in the alternating system of the Thomson-Houston Co. to light residences with incandescent lights. They have received the contract for a Sprague Power Station in Richmond, Va., and will set up three 125 horse-power Armstrong & Sims Co. engines and three steel tubular boilers set with the Jarvis boiler setting; also contract to put in an Edison Co. station in Great Barrington, Mass., with one tubular boiler set with the Jarvis Boiler Setting and two Armstrong & Sims Co. engines. They are setting a tubular boiler for the Thomson-Houston Co. in Atlanta, Ga., with the Jarvis Furnace to burn slack Alabama coal; also setting two tubular boilers with the Jarvis Furnace for the St. Paul School, Concord, N. H. They will set a boiler next week for the National Pipe Bending Co., New Haven, Conn.

**Baltimore Stock Exchange Quotations.**

Reported by ALEXANDER BROWN &amp; SONS, Bankers, Baltimore.

BALTIMORE, July 13, 1887.

	BID.	ASKED.
Virginia 3's, new	63 1/2	64 1/2
Wilmington & Weldon	100	100
Wilmington, Col. & Aug.	110	110
Va. & Tenn. ad. 5's	120	120
Wil. & Wel. Gold, 7's	123 1/2	124 1/2
Wil. & Wel. 5's	109	110
Wil. Col. & Aug. 6's	121	122
Atlanta & Char. 1st, 7's	121 1/2	122 1/2
Atlanta & Char. Income, 6's	106 1/2	107 1/2
Col. & Green. 1st, 6's	105 1/2	106 1/2
Va. Midland ad. 6's	118 1/2	119 1/2
Va. Midland 4th, 3-4-5	68	69
Va. Midland Income, 6's	95	96
Ga. Pacific 1st, 6's	107 1/2	108 1/2
Cape Fear & Y. Valley 6's	93 1/2	94 1/2

THE Cleveland Twist Drill Co., of Cleveland, Ohio., write us: The demand for our reamers, both the self-feeding and expansion, has grown so that we can't supply them fast enough. We have just received new milling machines that will turn out 4 reamers, where we can do one now, and these, coupled with new grinding machines put in since January 1st, will enable us to keep up with our orders we hope. Our catalogue for July 1887, is just ready for those that desire them.

In the course of the rapid growth of the business of the New York Belting & Packing Co., manufacturers of rubber belting, packing, hose and general rubber goods for mechanical purposes in New York, it has been found necessary to establish a branch depot at Hamburg. Messrs. Persicaner & Co., Pickhuben 5, Hamburg, have been appointed general agents and will carry a full stock of these well-known goods. Hamburg is a free port of entry, and will be used as a distributing point for other continental markets.

THE Cotton World, of New Orleans, edited by Messrs. C. H. Parker, H. G. Hester and Jas. A. Renshaw, who have heretofore compiled the statistical cotton crop reports for the National Cotton Exchange, will take up this work, which has been officially turned over to it by the president of the exchange. The Cotton World is devoted, as its name implies, to the cotton trade in all its branches, and with this new feature added it will become of even more value than before to those interested in cotton.

**THE MARKETS.**

OFFICE MANUFACTURERS' RECORD, BALTIMORE, July 13, 1887.

Never before probably was the general outlook for the crops of the South more promising than at present. The cotton crop is doing splendidly, and the average for July is 97, which is four points higher than the average for July in the previous ten years. The crop is under unusually clean cultivation, and so far there are no signs of injury. While August is a critical month, and the present prospects may be blighted, yet the cotton has many things in its favor, and the damage must be very severe to prevent the gathering of a large crop. In addition to this the wheat crop is on the whole good, and corn is remarkably promising, indicating, on an increased acreage, the largest crop for many years.

With the fulfillment of these brilliant crop prospects the South would show a degree of activity in trade and manufactures probably greater than that section has ever before enjoyed. Industrial interests, even during midsummer, are active; new enterprises are being established and old ones enlarged; building operation are lively, and everything promises well for continued prosperity.

The manufactured iron market continues dull, with but few sales of any importance. We quote as before, viz:

Ref. Bar Iron, 1 to 6 1/2 to 1.....	B. 2.10	2.40c
" " 1 to 4 1/2 to 1.....	" 2.10	2.40c
" " 3/4 to 2, round and.....	" 2.10	2.40c
square.....	" 2.50	3 c
Hoop Iron, 1 1/4 wide and upward.....	" 2.40	2 1/2 c
Band Iron, from 1 1/2 to 6 in. wide.....	" 3 c	3 1/2 c
Horseshoe Iron.....	" 4 1/2	5 1/2 c
Norway Nail Rods.....	" 8 1/2	10 c
Black Diamond Cast Steel.....	" 3 1/2	4 c
Machinery Steel.....	" 3 1/2	4 c
Spring Steel.....	" 8	9 c
Common Horse Nails.....	" 2 1/2	3 c
Railroad Spikes, 5 1/2 x 16.....	" 3 1/2	4 1/2 c
Steel Boiler Plate.....	" 2 1/2	4 c
Iron Boiler Plate.....	" 4 1/2	5 c
Boiler Tubes.....	" 4 1/2	5 c

In the local pig iron market there is no change. Reports from iron centers show more enquiry with a considerable increase in sales and less disposition on the part of makers to contract for future delivery. We quote as follows:

Baltimore Charcoal Wheel Iron (all Baltimore ore).....	28 00	29 00
Virginia C. B. Charcoal Wheel Iron.....	27 00	28 00
Anthracite, No. 1.....	20 00	21 00
" " 2.....	18 00	19 00
" " 3.....	16 00	17 00
" " Mottled and White.....	14 00	15 00
Old Rails.....	28 50	29 00
Old Steel Rails.....	22 00	23 00
No. 1 Wrought Scrap.....	22 00	22 50
Old Car Wheels.....	18 00	18 50

**HARDWARE.**

Hardware remains firm; as a rule, prices are unchanged. The only cutting in the market at present is on pound hammers, which are somewhat demoralized, owing to the breaking of the association. The large trade expected a considerable decline on common carriage bolts on July 1st, but in this they were mistaken, as the bolt makers have formed a pool, and the quantity discounts agreed upon are allowed only by the commissioner after the quantity has actually been purchased between July and January. Large orders for these goods are being placed daily at present prices. The Old Dominion Iron Works having purchased the plant, etc., of the Walker Horse Shoe Co., of Baltimore, will shortly commence the manufacture of this shoe, which is so popular throughout the South and West. Wier & Wilson, of Baltimore, have opened an office at 94 Chambers street, New York, with the Branford Lock Works, and have recently added some very desirable factories to their line.

Nails are held at about the same price and are quoted at about \$2@2.10.

BIRMINGHAM, ALA., July 1, 1887.

To the Trade.—We take this method of informing you of the reorganization of the Avondale Stove & Foundry Co., successors to Shock, Wood & Co., Avondale, Ala. The company has been placed on a sound financial basis, and, having improved machinery, are now prepared to mold all kinds of fine castings with promptness and satisfaction. We purpose carrying in stock all our lines of cook and heating stoves, ranges, grates, cast hollow ware and soil pipe and fittings. We wish to emphasize the fact that no foundry in the country has more experienced or skilled molders than ours, while all our castings are from the very best iron obtainable in this district; and, being judges, we pronounce it equal and in some respects superior to the best that comes to this market. We feel satisfied, therefore, in claiming for our products excellence in quality and the highest perfection in workmanship. A trial order will convince you that our claims are modest, for our goods will please both dealer and consumer. Soliciting your favors, we are yours truly,

AVONDALE STOVE &amp; FOUNDRY CO.

**Philadelphia Iron Market.**

PHILADELPHIA July 12, 1887.

The efforts of foreign rail makers to draw American orders has once more led to a drop in prices in two or three specific cases to \$37.50 and \$38 for between twenty to thirty thousand tons in all, for indefinite Southwestern delivery. There are other orders floating about which Pennsylvania mills expect to get. Regular business is done at \$39 to \$40, though it does not amount to much. Old rails are very firm at \$22.50@ \$23, while store lots are held at \$23.50@ \$25. The usual midsummer suspension is now on and will continue until next Monday morning, when there will be a general resumption at perhaps a slight advance. There is a great deal of business promised for the summer, and several mills have already secured a goodly number of orders. Prices are 2@2.15, with an upward tendency. Car builders will be heavy buyers. Several 500 ton lots have been already taken. Plate and tank has improved in demand and price and quotations to-day are 2.30@2.35. Structural iron is active at 2.30 for angles and 3.30 for beams and channels. Sheet iron mills are in receipt of considerable business at a slight hardening in prices. Nails move of well in retail lots at 2.10@2.20. Nothing of an unfavorable character is in sight. The consumption will be very heavy this fall and confidence is growing. Pig iron is quite active in a small way. No. 1, special is selling at \$22 and averages \$21@ \$21.50; No. 2 \$19@ \$20; Gray forge iron \$17@ \$18. The stocks are light and conditions everywhere favorable for an active season. Muck bars are \$31.50@ \$32. Wrought pipe is active.



### To Establish Iron and Steel Works and Develop Mineral Lands.

KANSAS CITY, MO., July 4, 1887.

*Editor Manufacturers' Record:*

The Fort Payne Land & Improvement Co. is formed, and we will locate iron and steel works, and proceed at once to develop the resources of the 36,000 acres we have bought. The coking coal and mineral deposits are inexhaustible, and we believe it to be a great enterprise. S. F. SCOTT & Co.

### A Tobacco Stemmy.

RICHMOND, VA., July 7, 1887.

*Editor Manufacturers' Record:*

We are putting up a tobacco stemmy in Henderson, N. C. ALLEN & GINTER.

### New Machinery.

FORDYCE, ARK., July 2, 1887.

*Editor Manufacturers' Record:*

We have added new machinery to our woolen mill, and everything is moving off O. K. ACRUMAN & POOL.

HOPKINSVILLE, KY., July 2, 1887.

*Editor Manufacturers' Record:*

F. E. Blumenstiel, R. F. West and W. H. Lee have formed the Blumenstiel Carriage Co., with H. Blumenstiel as manager, and contemplate increasing their business capacity in a short while.

BLUMENSTIEL CARRIAGE CO.

### Enlarging Phosphate Works.

ATLANTA, GA., July 5, 1887.

*Editor Manufacturers' Record:*

We have bought the Southern Phosphate Works, and are now putting up new chambers for manufacturing sulphuric acid; also enlarging the capacity of the works.

MADDOX, RUCKER & CO.

FORDYCE, ARK., July 2, 1887.

*Editor Manufacturers' Record:*

Our late discoveries have necessitated our building additional room to our laboratory and putting in new machinery. We solicit the correspondence of glass or bottle, paper box and wood box manufacturers.

ACRUMAN & SON.

CHATTANOOGA, TENN., July 5, 1887.

*Editor Manufacturers' Record:*

We have a plant located between the city of Chattanooga and Stanley Town for making first-class hand-made brick. Capacity unlimited to the extent of 15 acres; choice soil for the business. Will employ 30 to 50 hands. VAN ANDERSON & CO.

SAVANNAH, GA., July 4, 1887.

*Editor Manufacturers' Record:*

The contract to build the Columbia extension has been let to Gude & Burchell. CENTRAL RAILROAD CO., M. S. BELKNAP, Genl. Man.

### Contemplate Building Water Works.

WEATHERFORD, TEXAS, July 4, 1887.

*Editor Manufacturers' Record:*

Our city has in contemplation the erection of water works, and has contracted for an iron bridge to span the creek dividing the city, to cost \$4,000. We have the only castor oil mill in the State of Texas.

JOHN R. MACKENZIE.

### Building New Mill.

COLLIERSTOWN, VA., July 6, 1887.

*Editor Manufacturers' Record:*

I am now building a 3 1/2-story mill to take the place of an old one which I removed. Will use two turbine wheels instead of one overshot. Will use old machinery this season. W. A. TRIBBETT.

## FOR SALE,

At Acton, Florida, on the South Florida Railroad, a

## LARGE SAW MILL,

WITH  
Buildings, Boiler and Engines, Planer and Matcher, (Double Surface,) Rip Saw, Emery Grinding Machine, Band and Jig Saw, Log Hoist and Drum, and Pump for Elevating Water.

The entire outfit complete and in good order, with about two thousand logs in the boom and considerable lumber in yard. Mill is situated on the shore of a large lake, in a well wooded country. Will sell entire property for \$6,000.

For further particulars, apply to

The KISSIMMEE CITY BANK  
Kissimmee City, Fla.

## Cotton Mill Wanted.

Jackson, Tenn., with a population of 10,000, and in the cotton belt, has already subscribed \$66,665 in cash, and will donate a site of from three to five acres of land toward securing a \$200,000 Cotton Mill.

Practical cotton mill people of means who desire the remainder of the capital stock, and who are competent to take charge of and run the mill, will find it to their interest to correspond with

L. J. BROOKS,

W. B. TIMBERLAKE,

For the citizens of Jackson.

D. W. K. PEACOCK,  
Real Estate Agent,

CARTERSVILLE, GA.

Minerals a Specialty.

Refers to THE HOWARD BANK, Cartersville, Ga.  
J. W. RANKIN, Atlanta, Ga.

### HILLEARY, KEITH & KIRKPATRICK.

## Real Estate AND

## Stock Brokers,

106 21st St., Birmingham, Ala.

Real Estate Advertiser containing interesting articles concerning Birmingham and Anniston, with a large list of city and suburban property, mineral and timber lands, sent FREE to any address.

### COPY OF ORDINANCE

Passed by the Council of the Town of West Point, Virginia, on the 21st day of April, 1879, and re-enacted and approved on the 22d day of March, 1887.

Be it ordained by the Council of the Town of West Point, Va., that any party or parties investing in property in this town for the purpose of conducting any enterprise, such as manufactories, packing houses, &c., and actually operating the same, they shall be exempt from all corporation taxes upon such property, and all machinery and improvements thereon, for the term of ten years from the purchase of such property.

It is also ordered that the Mayor is hereby instructed to advertise this ordinance in the "MANUFACTURERS' RECORD," a paper published in the City of Baltimore, Md.

E. WILKINSON, Mayor.

## STEEL RAILS

COMPLETE OUT-FIT FOR

## Logging, Mining and Plantation

RAIL AND TRAM ROADS.

Light Sections Rails and Spikes in stock.

Locomotives, Logging Cars, etc.

NEW AND SECOND HAND.

HUMPHREYS & SAYCE,  
OFFICE NO. 1 BROADWAY, N. Y.

## WM. E. TANNER,

No. 1415 Main Street, Richmond, Va.

Is prepared to furnish promptly

LIGHT LOCOMOTIVES,  
Dummies for Street Railroads,  
Pole Railway Locomotives and Cars,  
ENGINES, BOILERS, & SAW MILLS.

Also, Freight Cars, of all styles, Railroad Spikes, Fish Plates, Bolts, Car Axles, Car Wheels, Trucks, Links, Pins, and other Car Fittings, Bar Iron, Steel Horse Shoes.

## FOR SALE.

1 second-hand 4 horse power boiler and engine; 1 No. 2 Kissel hand punch, second hand; 1 second-hand 4 ft. stove jointer, for butter tubs; 1 wood frame rip saw, NEW; 1 emery wheel stand, collars on both ends; also, 1 lot 8 arm pulleys. The above for sale cheap, or will trade for 24 inch iron planer. Address ULRICH & ALLISON, Rock Falls, Ill.

## Cotton Machinery FOR SALE.

The Machinery of a 6,000 Spindle Spinning Mill, consisting of Openers, Cards, Railway Heads and Troughs, Drawing Frames, Slubbing Intermediate, Roving, Spinning and Twisting Frames. All in first-class condition. For particulars apply to

PAWTUCKET THREAD CO.

PROVIDENCE, R. I.

## An Opportunity Seldom Offered. FOR SALE

A CONTROLLING INTEREST IN THE

## Texarkana Ice & Electric Light Co.

One of the best points South for the ice and light business. Earned last year 20 per cent; business increased this year so far. Two ice machines, one Arc Light Dynamo, three incandescent dynamos, 800 lamps added this season; 20 years' exclusive franchise for light; no gas in the city, and valuable railroad contracts for ice. For further particulars address J. A. POLHAMUS, Texarkana, Texas.

## For Sale.

A large vein of Argentiferous Galena Ore, that assays \$50.00 to \$80.00 per ton, Silver, Gold and Lead.

Developed and ready for machinery, with 150 acres of land and fine water power. Ten (10) miles from railroad.

For particulars address

J. W. STEWART,

Box 304, Knoxville, Tenn.

## REAL ESTATE IN A Booming Alabama Town FOR SALE.

Three Hundred Choice Business and Residence Lots in the CITY OF ANNISTON.

This property is the best in the city, and having been bought before the boom, will be sold at prices affording investors a rare opportunity to make certain and handsome profits. Address

F. M. HIGHT, Anniston, Ala.

## For Sale, Cheap.

Two Second-Hand Horizontal Tenders, with Pin Chains.

Steam Pipes for Drying, and Engine for Driving. For further particulars address

GRANGER,

Care MANUFACTURERS' RECORD.

# LEDBETTER & CO.

## Land and Loan Association.

(INCORPORATED.)

## Commission Dealers in Lands, Stocks and Bonds.

### City and Mineral Property a Specialty.

Capital Stock  
\$100,000.

—REFERENCES:—

First National Bank, Anniston, Ala.

Col. Jno. M. McKleroy, Pres. Anniston City Land Co.

## ANNISTON, ALA.

—CORRESPONDENCE SOLICITED.—



## Cincinnati Iron Market Report.

Specially reported by ROGERS, BROWN & Co., Pig Iron Commission.

CINCINNATI, July 11, 1887.

The situation in pig iron illustrates the extreme difficulty of arresting and turning a downward market. Every argument based on rate of consumption and production, and the rapid depletion of stocks and increasing scarcity of desirable iron, points to an advance. Practically, however, no advance has taken place, and, though the tendency is now decidedly upward, occasional sales are at lowest prices of the year. Transactions of the past week throughout the West have been very large, though business in the immediate Cincinnati market has been small. Some very large enquiries are now before dealers, and if the sales are consummated, both charcoal and coke irons can not fail to feel the stiffening influence. Old rails have advanced about \$1 per ton, and old wheels are firm at \$21 Cincinnati. We quote for cash:

## HOT-BLAST FOUNDRY.

Ohio and Southern Strong Coke No. 1.	\$20 00@20 50
" " " " " " " " " " " "	" " " " " " " " " " " "
" " " " " " " " " " " "	" " " " " " " " " " " "
Ohio Soft Stonecoal, No. 1.	20 00@20 50
Ohio Soft Stonecoal, No. 2.	19 00@19 50
Mahoning and Shenango Valley Coke, No. 1.	21 50@22 00
Hanging Rock Charcoal No. 1.	23 00@24 00
" " " " " " " " " " " "	" " " " " " " " " " " "
Tennessee & Alabama Charcoal No. 1.	22 00@23 50
" " " " " " " " " " " "	" " " " " " " " " " " "

## FORGE.

Strong Neutral Coke.	\$18 00@18 50
Mottled " " " " " " " " " " " "	16 50@17 00
Cold Shortings.	17 00@17 50

## CAR WHEEL AND MALLEABLE.

Southern Car-Wheel Iron.	25 00@26 00
Hanging Rock Cold Blast, No. 1.	25 00@26 00
Hanging Rock Cold Blast, No. 2.	— @ —
Lake Superior Malleable.	25 00@26 00

## Louisville Iron Market.

Specially reported by GEO. H. HULL & Co., Commission Merchants for the sale of Hot and Cold Blast Pig Iron.

LOUISVILLE, KY., July 11, 1887.

The market for pig iron continues to exhibit more favorable features, and although no advance can be reported, at the same time some sales of some grades have been made at higher figures. The advance in bar iron and nails is having its effect on the market for pig iron, and is one of the factors that is stiffening the market. The demand from the interior is better than from the city, but some sales from the city proper have been booked at our outside quotations for certain grades. We quote for cash in round lots as below, quotations as far as possible being made from actual transactions:

## FIG IRON.

Southern Coke, No. 1 Foundry.	\$19 50@21 00
" " " " " " " " " " " "	" " " " " " " " " " " "
" " " " " " " " " " " "	" " " " " " " " " " " "
Hanging Rock Coke, No. 1 Foundry.	18 00@18 75
Southern Charcoal, No. 1 Foundry.	19 00@20 00
Silver Gray, different grades.	17 00@18 00
Southern Coke, No. 1 Mill, Neutral.	17 50@18 25
" " " " " " " " " " " "	" " " " " " " " " " " "
" " " " " " " " " " " "	" " " " " " " " " " " "
Southern Charcoal, No. 1 Mill.	18 50@19 50
White and Mottled, different grades.	16 00@17 00
Southern Car Wheel standard brands.	25 00@26 00
" " " " " " " " " " " "	" " " " " " " " " " " "
Hanging Rock Cold Blast.	25 00@26 00
" " Warm " " " " " " " " " " " "	22 00@23 00

Specially reported by W. B. BELKNAP & Co., Nails, Wire, Iron, Hardware, Carriage and Wagon Goods.

LOUISVILLE, KY., July 11, 1887.

Bar iron is moving freely with a little stiffness in price, manufacturers urging the additional wages as a good excuse for better figures.

Nails are not being sold in such large quantities as when they were at bottom figures, though there is still a fair demand for actual consumption.

Barb wire is beginning to move, as the crops are laid by and farmers now have time to turn their attention to fencing.

## Chicago Iron Market.

Specially reported by ROGERS, BROWN & Co. W. W. BACKMAN, Resident Agent.

CHICAGO, July 11, 1887.

The past week there has been some large sales in L. S. C. C. irons, at full market price. Great increase over last week in in-

quiries for all grades and kinds and have been at or above full market price, indicating that the limit of supply of cheap irons is quickly found. Fully one-half of the Southern companies usually supplying this market are booking no orders, having more on hand than they can take care of. It is safe to say the present week has been one of the most active since the beginning of the year, and prices for the first time since then are on the uprise, not at a rapid pace but slow and sure. We quote for cash f. o. b. cars Chicago:

## COKE AND STONE COAL FOUNDRY.

Ohio (Hanging Rock) Softeners No. 1.	21 50@22 50
" " " " " " " " " " " "	" " " " " " " " " " " "
" " " " " " " " " " " "	" " " " " " " " " " " "
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" " " " " " " " " " " "	" " " " " " " " " " " "

## CHARCOAL FOUNDRY.

Lake Superior.	\$23 50@23 00
Southern.	22 50@23 00
Hanging Rock.	24 50@25 50

## CAR WHEEL AND MALLEABLE.

Lake Superior.	23 50@23 50
Standard Southern.	24 00@26 50
Hanging Rock, cold blast.	27 00@29 00
" " warm blast.	23 50@24 50

## OLD MATERIALS.

Old Rail, American.	24 00@25 00
Old Wheels.	20 50@21 50

## St. Louis Iron Market.

Specially reported by ROGERS, BROWN & Co., Gay Building, 204 N. 3rd street, St. Louis. W. H. SHIELDS, Manager.

ST. LOUIS, July 11, 1887.

We note a scarcity this week of irons, which have been offered so freely for the past 30 days and at unproportionately low figures compared with prices of the regular foundry grades. The demand is fully equal to the supply, and several sellers have had to buy outside irons to supply wants of their customers. Several large contracts have been made since our last report, and buyers generally are disposed to cover for future wants. The partial settlement of the coke question came just in time to prevent any of the foundrymen shutting down for lack of fuel. The market is evidently gathering strength, and furnaces are not so much disposed to sell for future delivery as they were two weeks ago. We quote for cash f. o. b. St. Louis:

## HOT-BLAST CHARCOAL.

Missouri.	\$23 00@23 50
Southern.	21 00@22 00

## COKE AND COAL.

Southern No. 1.	21 00@22 00
Southern No. 2.	20 00@20 50
Ohio Softeners.	22 00@24 00

## MILL IRONS.

Missouri.	20 00@21 00
Southern No. 1.	18 50@19 00
Southern No. 2.	17 50@18 00

## CAR-WHEEL AND MALLEABLE IRON.

Southern.	24 00@27 00
Lake Superior.	23 00@25 00

## MISCELLANEOUS.

Old Rails.	22 50@23 00
Old Wheels.	20 00@21 00
Connellsville Coke, (Frick's).	— @ 6 15

## Chattanooga Iron Market.

Specially reported by LOWE & TUCKER, Brokers and Commission.

CHATTANOOGA, TENN., July 11, 1887.

The condition of the pig iron market remained unchanged, other than increased firmness in prices. There is a great scarcity of good foundry grades, while mill and lower grades are plenty. The advance, which occurred some four or five days since, has been fully maintained and we note sales of round lots for Eastern points at \$17 for No. 2, and much more could be sold at that price, if the iron was here to sell. Our best iron men are now of the opinion that everything is now pointing to a gradual stiffening up of prices, but are, as a general thing, taking a conservative view of matters and sell at ruling rates what they think they will make.

THE MANUFACTURERS' RECORD, published at Baltimore, and edited by Mr. R. H. Edmonds, is a large 44-page weekly journal, ably edited, handsomely gotten up and full of interesting matter, and is doing a great work for the Southern people, and ought to receive their hearty co-operation and support.—Oxford (Ala.) Echo.

## Stevens Filter Co's UPWARD Self-Cleansing Filters.

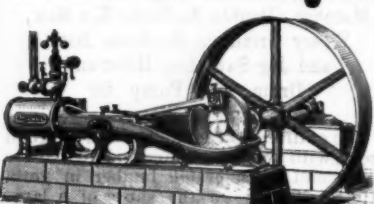
The best filter for rapid and thorough purification of water for household use. Thousands in use and all give satisfaction. Durable, simply constructed, tastefully decorated, several styles, many sizes, various prices. Send for catalogue to

**The Stevens FILTER CO.**  
Toledo, O.

or Bartlett, Hayward & Co., Baltimore, Md.; J. S. Silva, Savannah, Ga.; Phillips & Buttrick, Mfg. Co., Nashville, Tenn.; F. Ozanne & Co., Memphis, Tenn.; Simmons Hardware Co., St. Louis, Mo.; E. D. Smythe, Jr., Augusta, Ga.



## The "MOGUL" Engine.



NEW DESIGN.  
Bearings extra long, compact, simple, strong, durable, and of  
Superior Workmanship and Materials.

## The BEALL Engine, Boiler AND MACHINE WORKS,

MERWIN MCKAIG. CUMBERLAND, MD.  
MANUFACTURERS OF

## The "MOGUL" Engines.

Pulleys, Shafting, Couplings, Collars, &c.  
Pulley Turning Machines, Pulley Boring Machines, Shafting Lathes, Shafting Straighteners and Cylinder Boring Machines.  
Send for low price-lists and big discounts.

## ARCTIC ICE MACHINE MFG. CO.

Works, 4, 6, 8 & 10 West Street, Cleveland, O.  
Manufacturers of Machines for Making Ice and for Refrigerating Breweries, Pork Houses and buildings of all kinds requiring a steady, low temperature. Over 100 of our machines now in use. Send for any particulars desired.  
P. O. Box 92, Cleveland, Ohio, or P. O. Box 246 Cincinnati, Ohio.

## BERNHARD DITZ, Manufacturer of Printers' Rollers,

and Roller Composition. Factory, cor. Light and Mercer streets, Baltimore. Prices: Composition, (bulk) 30 cents per lb.; for Casting, "use, 30 cents per lb. Orders by Mail promptly attended to.

## Buy "The New South"

—PRICE \$2.50—  
HANDSOMELY BOUND IN CLOTH.  
Manufacturers' Record Co., Publishers,  
BALTIMORE, MD.

## TO READERS OF ADVERTISEMENTS.

Readers of the MANUFACTURERS' RECORD who order any goods herein advertised, or ask for information concerning them, will oblige the publishers by stating that they saw the announcement in the columns of this paper.

## Roller Chain Belting

Detachable in every Link  
FOR IMPROVED  
**ELEVATORS,**  
Conveyers,  
AND  
DRIVING BELTS.  
FOR HANDLING  
Coal, Ores, Grain,  
CLAY, BRICK, &c.  
ADDRESS THE  
**Roller Chain Belting Co.**  
COLUMBUS, OHIO.  
Also Manufacturers of the  
Legg Coal Mining Machines  
and Rotary Power Coal Drill.  
Send for Illustrated Catalogue.  
R. SWORMSTEDT & CO.  
Aventa, Baltimore.



If you want the BEST, MOST EFFICIENT and DURABLE

## CENTRIFUGAL PUMP

IN THE MARKET, REMEMBER  
THAT THE  
Original Baldwinville  
**Centrifugal Pumps**  
ARE MANUFACTURED ONLY BY  
**BOGGS & CLARKE, - - SYRACUSE, N. Y.**  
Write for Catalogue and Prices.



## Patent Tram Wheel




THE MOST PERFECTLY

## Chilled and Automatic Self-Oiler

Will run two months with one filling of the reservoir. The economy in oil by using these wheels pays for them. For particulars and prices of Wheels, Axles and Mining Cars, address,

**GEORGE PEACOCK,**  
Selma, Ala.

**Bates' Hand Elevators.**  
Patented April 18, 1871. Released July 25, 1876.  
OVER 6,000 IN USE.



Adapted for Warehouses, Stores, Factories, Hotels, Public Institutions, and every place where merchandise, &c., is transferred from one story to another.  
**JAMES BATES, Patentee,**  
Nos. 1 3 & 5 President Street. BALTIMORE.



# THE

# Hercules Water Wheel

## IN THE SOUTH.

### WHAT SOUTHERN USERS SAY OF THE HERCULES.

There is probably no higher authority in the South on water wheels than Mr. John Hill, civil and mechanical engineer, of the great Eagle & Phenix Cotton Mills, at Columbus, Ga. Read what he says of the Hercules Wheel.

#### The Best Wheel We Have.

JOHN HILL, CIVIL AND MECHANICAL ENGINEER,  
Reference—Eagle & Phenix Mfg. Co.

COLUMBUS, GA., April 30, 1887.

As to my opinion of the Hercules Wheel, will say: In our mill (the Eagle & Phenix) we have twenty-one (21) water wheels of various kinds, three of them being Hercules. I regard the Hercules as being by far the best wheel of any we have. It is the best in workmanship, absence from repairs, large per cent. in power, and in general satisfactory results. I know of no wheel its equal. At Holyoke, testing flume a few weeks since, I personally witnessed a test of a Hercules of the ordinary construction, which gave 83 96-100 per cent. of efficiency.

Yours truly,

JOHN HILL.

#### Cannot Speak too Highly of the Hercules Wheel.

JAMES RIDDLE, SON & CO.  
Brandywine Cotton Mills.

KENTMERE, DEL., April 27, 1887.

In reply to your inquiry as to the working of a "Hercules Water Wheel" now running at our mills, would say that we put in nearly two years ago a 39-inch Hercules Wheel, running under a 14-foot head. It is driving up to full regular speed three hundred and three heavy looms, with only half gate. We are about to enlarge the weave mill and add three hundred more looms, which will be driven by the same wheel. We cannot speak too highly of the Hercules. It has absolutely run without cost or derangement since it started, and has given eminent satisfaction in every way.

Yours truly,

JAMES RIDDLE, SON & CO.

#### Perfectly Satisfactory in Every Way.

PORTER WOOLEN MILL  
J. H. Porter, President. J. W. Robertson, Gen. Manager.

CLARKSVILLE, GA., April 29, 1887.

In reply to enquiry as to my opinion of the Hercules Turbine Water Wheel, say: I have put in two, one about

six years since, and the other in 1883, and think so highly of the wheel that I shall use another in cotton mill this company is now constructing. Neither of the wheels alluded to have given the slightest trouble, and their working has been perfectly satisfactory in every way.

Yours truly,

J. W. ROBERTSON, Gen. Man.

#### The Hercules Wheels Have Given Perfect Satisfaction.

ROSWELL MANUFACTURING CO.

Sheetings, Shirtings, Checks, Yarns, &c.

ROSWELL, COBB COUNTY, GA., April 29, 1887.

In answer to yours of 25th inst., asking our opinion of the Hercules Wheel, will say our experience is as follows: In our new mill, built about four (4) years ago, we put a 30-inch Hercules Wheel, under a 21-foot head of water. It has given such satisfaction running this (5,000) five thousand spindle mill, that last summer, when we were compelled to put in a new wheel at our old mill, running 7,000 spindles, looms, twisters, &c., we put in a 36-inch Hercules Wheel, under a 27-foot head of water. All I can say is we have surplus power in both mills, have lost no time by any defect of wheels, and if we were putting up any more mills, would use the Hercules Wheel. They have given us perfect satisfaction.

Yours respectfully,

F. J. MINHINETT, Prest.

#### A Good Wheel, and Has Given Good Satisfaction.

PEE DEE MANUFACTURING CO.

Plaids and Warps.

ROCKINGHAM, N. C., April 30, 1887.

We have been using the Hercules Water Wheel for more than six years. Our superintendent says it is a good wheel, has given good satisfaction, and its performance is equal to the claims of the maker. We have a head of 17 feet. Our wheel has a diameter of 39 inches. Under this water pressure the wheel has moved 4,000 spindles and the needed preparation, and 164 plaid looms. The above includes the dye house, machine shop and all other machinery which we employ.

Very respectfully,

WALTER L. STEELE, Prest.

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MARIETTA, GA., April 30, 1887.

In reply to your favor of the 25th inst.: I am using four Hercules Water Wheels, two 12-inch, one 24-inch,

and one 30-inch. They have given me perfect satisfaction, and I think that they are the best wheels that I have ever seen.

Yours truly,

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PACOLET MANUFACTURING CO.

Jno. H. Montgomery, Prest. and Treas.

PACOLET, S. C., April 29, 1887.

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Very truly yours,

JNO. H. MONTGOMERY, Pres. and Treas.

#### Well Satisfied With It.

WM. J. RUSSELL,  
Manager Princeton Factory.

ATHENS, GA., April 28, 1887.

I have used the "Hercules" wheel since 1881, and am so well satisfied with it that I should not purchase any other if in want of a first-class wheel. It does all the manufacturers claim for it.

Yours truly,

WM. J. RUSSELL, Manager.

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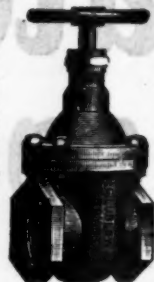
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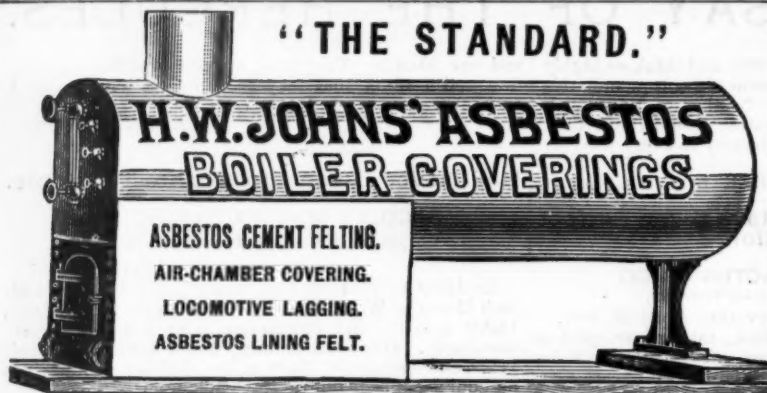


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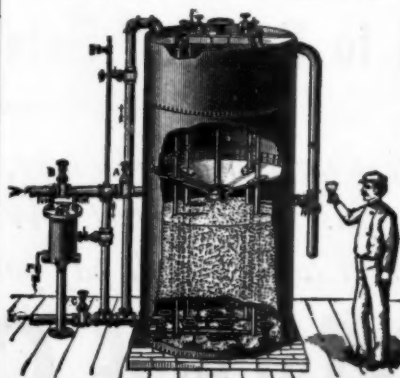
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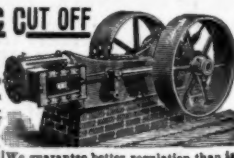
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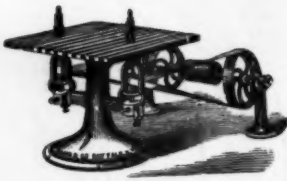

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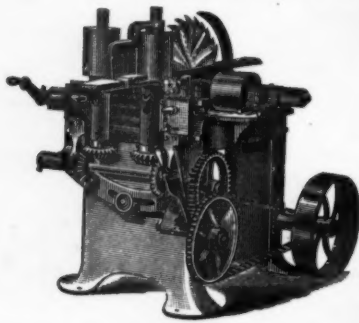
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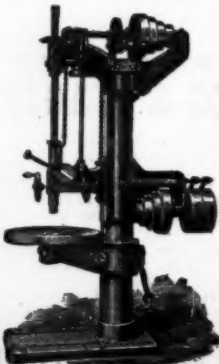
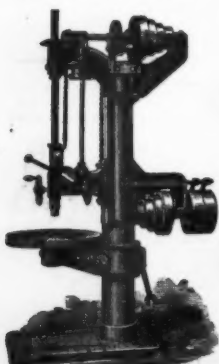
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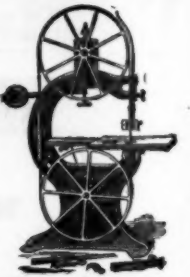
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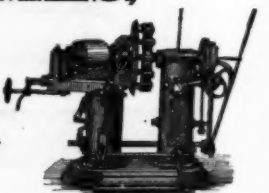
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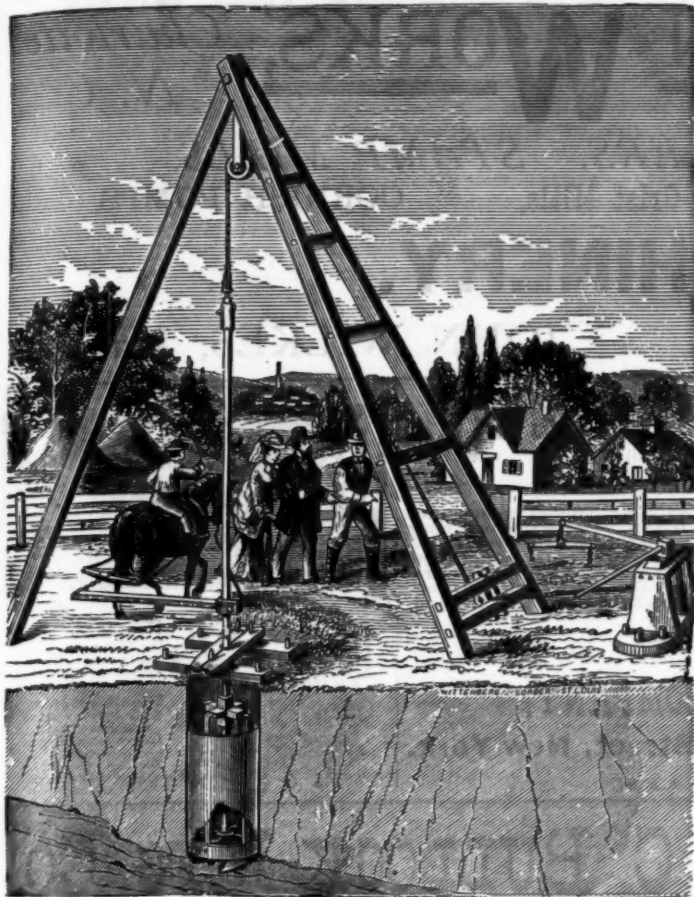
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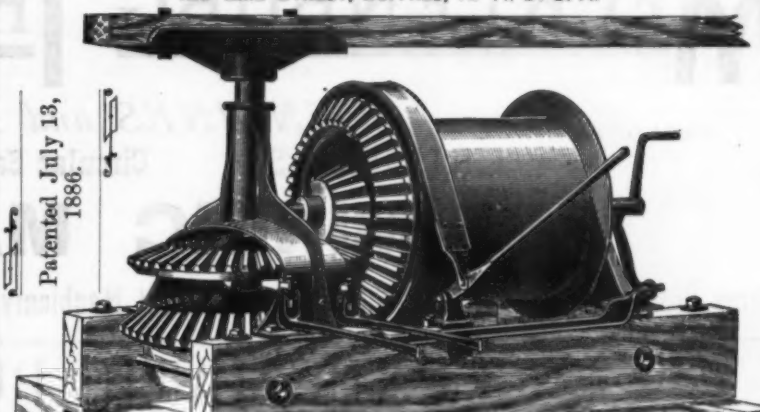
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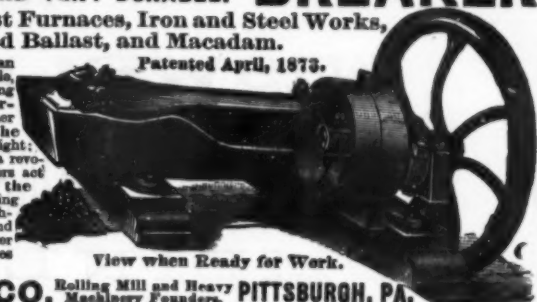
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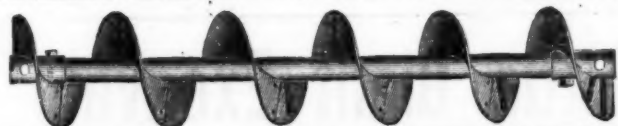
View when Ready for Work.

**TOTTEN & CO.** Rolling Mill and Heavy Machinery Founders, PITTSBURGH, PA.

**The CALDWELL PATENT SPIRAL STEEL CONVEYOR,**

Made of Steel, Double Bolted, Double Collared and Extra Strong Couplings.

SPECIALLY ADAPTED TO USE IN HANDLING COTTON SEED AND ALL ITS PRODUCTS, FERTILIZERS AND PHOSPHATES.



Dealer in Mill and Grain Elevator Supplies.

Can Ship from Pittsburgh or Chicago.



THIS BUCKET is of one piece steel. No seam. No Rivets. Light, strong, durable. Discharges well at high speed.

**H. W. CALDWELL,**

131 and 133 West Washington Street, CHICAGO, ILL.

**LINK BELT MACHINERY.**

✻ Elevating ✻ and ✻ Conveying ✻ Machinery, ✻

(EMPLOYING EWART CHAIN.)

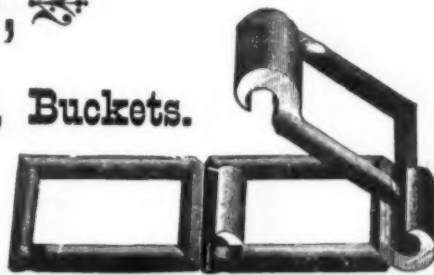
Sprocket Wheels, Traction Wheels, Shafting, Pulleys, Buckets.

Send for New Catalogue containing all the latest improvements in Elevators and Conveyors.

**BURR & DODGE,** 39 South Holliday Street, Baltimore, Md.

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**LINK-BELT MACHINERY CO.,**  
CHICAGO, ILL.



**BRIDGEPORT BRASS CO.,** 19 Murray Street, NEW YORK.

— MANUFACTURERS OF —

**Sheet Brass, Seamless & Brazed Brass AND Copper Tubing**

BRASS and COPPER WIRE, and RODS,

Gas and Kerosene Burners and Trimmings. The Celebrated Leader Burner a Specialty.

ELECTRIC COPPER WIRES, Plain and Covered. Particular Attention given to Cutting Blanks and Metals to Order.



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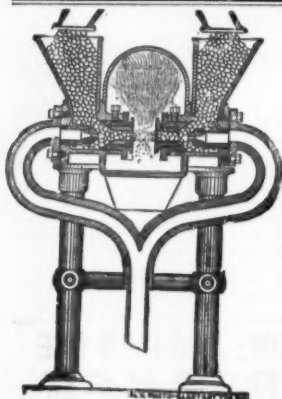
BUILDERS OF

ENGINES and BOILERS, STAMP MILLS,  
CRUSHERS, Circular Saw and Grist Mills, CORNISH PUMPS,

## MINING MACHINERY.

Cotton Presses, Water Wheels, Shafting and General Machinery.

JOHN WILKES, Manager.



Sectional View of Pulverizer.

### PNEUMATIC PULVERIZER.

The principle of pulverization consists in the employment of

#### TWO POWERFUL OPPOSING CURRENTS

of dry super-heated steam, so arranged that they continuously charge themselves with crushed or granulated material, and by the great force and velocity of the steam currents the minerals are dashed against each other with such power of concussion as to cause the hardest ores to be pulverized to any degree of fineness desired. The high temperature of the super-heated steam currents employed, through which every minute particle of ore must pass, causes them to become very hot and dry, which produces a beneficial effect upon Sulphurets and ores containing rusty Gold. The light weight and simplicity of construction of the Pulverizer, the extremely small and inexpensive wearing parts are the WONDER and SURPRISE of all who witness its operation. The Company are prepared to furnish complete plants for pulverizing

10 to 200 Tons Per Day,  
including a Sectional Steam Boiler supplying all the power required.

#### PNEUMATIC PULVERIZER COMPANY,

L. F. HOLMAN, Pres.  
F. A. LUCKENBACH, Supt.

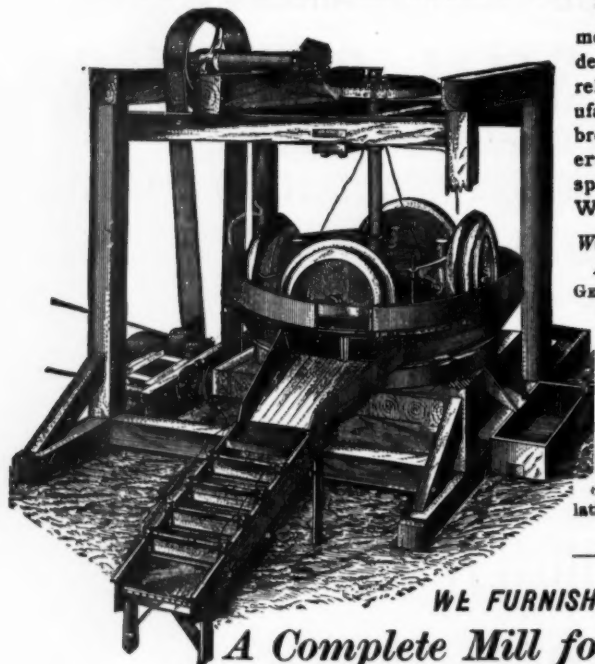
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\$50  
Scales  
For \$35.00  
We deliver on trial,  
Fully warranted,  
all metal parts for  
U. S. Standard  
2-Ton Wagon Scales,  
\$15 covers cost of  
timbers and work.  
Larger sizes in pro-  
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Illustrated book FREE  
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## WISWELL Ore Pulverizer and Amalgamator COMBINED.



The following testi-  
monial from Mr. Mars-  
den, of the firm of Far-  
rel & Marsden, man-  
ufacturers of stone-  
breakers & ore-crush-  
ers, Ansonia, Conn.,  
speaks volumes for the  
Wiswell Mill:

Wiswell Electric Mining  
Machinery Co.:

GENTLEMEN: After care-  
fully inspecting your  
mill and seeing it in  
operation, I do not hesi-  
tate to say that it is one  
of the best, if not the  
best pulverizer and most  
complete gold saving  
machine I have ever  
seen.

Please accept congratu-  
lations for your success.  
S. L. MARSDEN.

WE FURNISH

A Complete Mill for \$2,500.

DELIVERED ON BOARD CARS.

For further information address

WISWELL  
Electric Mining Machinery Company,  
A. A. REEVE, Treas. 4 Post-Office Square, Boston, Mass.

## TO READERS OF ADVERTISEMENTS.

Readers of the MANUFACTURERS' RECORD  
who order any goods herein advertised, or ask  
for information concerning them, will oblige the  
publishers by stating that they saw the announce-  
ment in the columns of this paper.

## M. C. BULLOCK MFG. CO.

MANUFACTURERS OF



Diamond Pointed Rock Drills,  
STEAM ENGINES and BOILERS,  
Lane's Patent Band Friction Hoisting Machinery,  
FOR MINES, BLAST FURNACES, DOCKS, ETC.  
STRAIGHT LINE ENGINES.

GENERAL OFFICE:

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WORKS:

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## The Little Giant Excavator.

—A LONG FELT WANT SUPPLIED.—

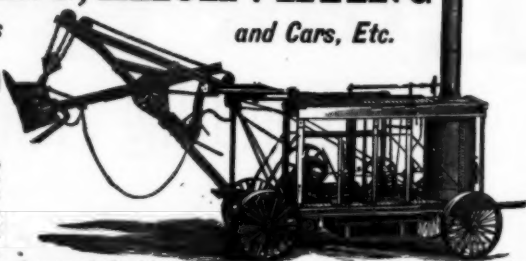
### For DITCHING, EXCAVATING

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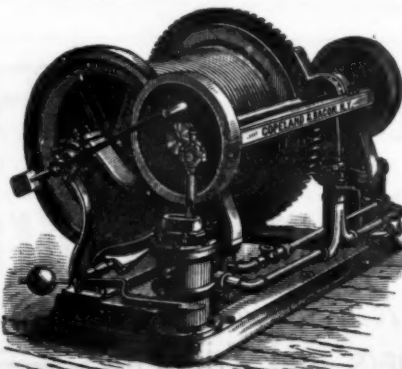
and Cars, Etc.

50 TO 100 PER CENT. SAVED  
IN LABOR.

Capacity of Machine 500 to 700  
cubic yards per day. Self propel-  
ling. Easily moved. Being built  
entirely of steel, is both strong,  
light and a very substantial ma-  
chine. Can be used on flat-boat for  
dredging ditches, irrigating or dig-  
ging canals. Contractors and railroads promptly furnished with estimates for excavators of every description



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BACON Winding Engines  
Furnace Hoists  
Mine Hoists.

(With or Without Rollers.)

"Mining PLANTS," Concentrating  
Works and Dredging Machinery  
Furnished Complete.

COPELAND &amp; BACON,

85 Liberty Street, New York.

309 Arch Street, PHILADELPHIA.

REFERENCES:—Croton Magnetic Iron Mines, Brewster's, N. Y. Crown Point Iron Co., Crown Point,  
N. Y. Belvidere Iron Co., 35 Broadway, New York. Sea Island Chemical Co., Beaufort, S. C.



## TRADE NOTES.

THE Volker & Felthousen Manufacturing Co., of Buffalo, N. Y., have taken the contracts for the water works pumping machinery for San Jose, Cal., Garden City, Great Bend, Oswego and Marion, Kansas. This firm have been running night and day for the past six months and report their pump business increasing rapidly.

THE Mason Regulator Co., of Boston, have recently received large orders for reducing valves from the cotton seed oil companies of Texas, Arkansas and Tennessee. They also placed several large reducing valves in the steam heating system of the National Soldiers' Home, Togas, Me.

THE Prentiss Vise Co., of New York, have issued a new illustrated catalogue and price list, which supersedes all previous lists. This catalogue contains illustrations and descriptions of the large line of vises made by this company. It will be mailed to any desired address.

FLETCHER & THOMAS, of Indianapolis, Ind., dealers in Quaker brick machines and brick makers' supplies, report sales for June as far ahead of those made in the same month for 5 years past. They have just shipped 2 machines to Arkansas, 3 to Indiana, 1 to Illinois, 1 to Maine, 1 to Florida, 1 to Tennessee and 4 to Alabama. They are now setting up a complete outfit for Messrs. Stewart & Rickert, at Leeds, Ala., where they furnish boiler, engine and everything to complete a first-class brick yard, besides furnishing them a full set of blacksmith's and other tools, so they can do all necessary work without depending on local or uncertain shops.

THE sales of boilers by the Babcock & Wilcox Co. for May and June, 1887, were as follows:

	H. P.
Gordon, Strobel & Laureau, Phila., 7th order.....	292
S. D. Kendrick, Glens Falls, N. Y.....	51
Swift Manufacturing Co., Columbus, Ga., 3d order.....	292
Gordon, Strobel & Laureau, Phila., 8th order.....	1,248
Luray Cave & Hotel Co., Luray, Va.....	45
Mineral, Railroad & Mining Co., Lake Fidler Colliery, Shamokin, Pa.....	240
Mineral, Railroad & Mining Co., Cameron Colliery, Shamokin, Pa.....	240
Solvey Process Co., Syracuse, N. Y., 3d order.....	832
Pennsylvania Steel Co., Baltimore, Md., 2d order.....	3,840
Columbus Buggy Co., Columbus, Ohio, 2d order.....	250
Springville Co., Rockville, Conn.....	244
White Manufacturing Co., Rockville, Conn.....	136
Pencoyd Iron Works, Pencoyd, Pa., 4th order.....	156
D. S. Cook, Princess Furnace, Glen Milton, Va.....	312
Geo. Westinghouse, Jr., Pittsburg, Pa.....	170
Bucyrus Gas, Light & Fuel Co., Bucyrus, Ohio.....	85
Ch. Jacquin, New York City, for Knickerbocker Cottage.....	25
M. Camacho Rolden & Nephew, N. Y. City for Mexico.....	122
Making a total of.....	8,580

MR. DAVID BOYLE, of Chicago, manufacturer of the Boyle ice machines, recently received the following letter:

PINE BLUFF, ARK., May 8, 1887.

DAVID BOYLE, ESQ., Chicago, Ill.:  
Dear Sir—The new machine has been tried thoroughly. We failed completely to make it do what you said it would. I can't tell what is the matter; you will have to come here yourself or send some one. The confounded thing will and does make at least 6½ to 7 tons a day, and I don't know what to do with the ice. She beats the old one at least one ton to a ton and a half a day, so you can draw on us at three days sight for a thousand dollars and in a few days after the thousand is paid, will send you the other five hundred dollars. These are five ton machines.  
Respectfully,  
DISTILLED WATER ICE CO.  
J. F. HICKS.

## THE NEW IMPROVED HUGOU GOVERNOR.

—The Norwalk Machine Works, of Norwalk, Ohio, have purchased the patents and all rights, and are now sole owners and manufacturers of the well-known and popular Hugou governor, equal to the best and most reliable in the market. The recent improvements on the Hugou governor make it the most sensitive, quickest acting and most reliable and the handsomest governor, it is said, of any in the market. It works easily and with perfect freedom, having only free tension of the springs, with no weight of balls to lift or short springs to master. Sales are increasing each day, and the governor continues to grow more and more popular among steam users.

"THROUGH VIRGINIA OVER THE NORFOLK & WESTERN RAILROAD" is the title of a very attractive and beautifully illustrated pamphlet issued by the passenger department of the Norfolk & Western Railroad. This is one of the best summer excursion guide-books that we have seen for a long time, and those who contemplate a visit to any of the many mountain resorts of the Old Dominion will find it very instructive. It will be sent free upon application to W. B. Beville, G. P. A., Roanoke, Va.

## Important.

When visiting New York city, save baggage express and carriage hire, and stop at the Grand Union Hotel, opposite Grand Central Depot.

600 handsomely furnished rooms at \$1 and upwards per day. European plan. Elevators and all modern conveniences.

Restaurants supplied with the best. Horse cars, stages and elevated railroads to all depots. You can live better for less money at the Grand Union Hotel than any other first-class hotel in the city.

No hotel keeps up its standard and good name better than the American House, Boston, and it is noted all over the country for its superior accommodations and most excellent management.

THE BEST.—First-class accommodations at Palace Hotel, Cincinnati, \$2 and \$2.50 per day. Elegant rooms, fine table and all conveniences.

FOR boiler fronts there is nothing equal to Dixon's Silica-Graphite Paint. It is a beautiful black, and will not burn off. Boiler fronts painted three years ago are as good to-day as when painted. Address Jos. Dixon Crucible Co., Jersey City, N. J.

## List of Patents.

The following Patents were granted to citizens of the Southern States, bearing date July 5, 1887. Reported expressly for this paper by Louis Bagger & Co., Mechanical Experts and Solicitors of Patents, Washington, D. C.

Bardo, P. N., and T. Ford, Newport, Ky. Hydrant.....	365,896
Bird, J. C., Rising Sun, Md. Sulky cultivator.....	365,900
Bujac, James, Catonsville, Md. Manufacture of fuel and illuminating gas.....	365,906
Byrne, Patrick, Nashville, Tenn. Hatchway operating device.....	365,791
Callahan, James W., New Iberia, La. Advertising medium.....	365,907
Curtice, J. M., Louisville, Ky. Churn.....	366,157
Davis, M. R., Pink Hill, Texas. Self-feeding cotton press.....	365,799
Geyer, H. R., San Antonio, Texas. Extracting axle boxes from wheel hubs.....	366,163
Gray W. G., Pleasant View, Tenn. Cider mill.....	366,165
Green, Wm. H., Kingsbury, Texas. Plow.....	366,090
Hancock, M. T., Little Rock, Ark. Sulky plow.....	366,094
Hess, Wm., San Antonio, Texas. Stock chute.....	365,998
Holliday, B. L., near Holliday, Va. Bedding protector.....	366,000
Huber, L. C., Huber, Ky. Gas Generating machine.....	366,168
James, J. W., Cuba, Tenn. Bathing machine.....	366,110
Karwiese, G. A., Louisville, Ky. Steam generator.....	365,880
Kidd, L. C., Richmond, Va. Fire extinguisher.....	365,892

Killingsworth, T. H., Waco, Texas. Stalk cutter.....	365,821
Murrill, A. M., Cornersville, Tenn. Mouse trap.....	365,848
Norwood, Samuel, West Green, Ala. Curry comb.....	366,019
Rouse, S. J., Paris, Texas. Cotton chopper and scraper.....	365,864
Prior, J. T., Prior's Station, Ga. Plow.....	366,128
Sauer, Charles, Easton, Md. Stump puller.....	366,032
Simon, Wm., Baltimore, Md. Making Potassium bichromate.....	366,036
Smith, W. D., Hopeville, Ga. Grain cradle.....	365,947
Snyder, J. H. and S. W., Richmond, Va. Car Heater.....	366,040
Steele, Oliver, Georgetown, Texas. Andiron.....	366,133
Stepenson, S. M., Bastrop, La. Dirt Cart.....	366,043
Vanwinkle, Edward, Atlanta, Ga. Cotton gin.....	366,139
Vinson, G. W., Mayfield, Ky. Clevis.....	366,140
Wade, E. T., Wesson, Miss. Chair bottom.....	366,048
Walshall, C. J., Petersburg, Va. Bread raiser.....	366,050
Williams, R. E., Dallas, Texas, and T. G. Hammer, New Orleans, La. Electric Belt.....	366,058
Wright, S. W., Waverley, Texas. Combined cultivator and corn planter.....	365,893

A. P. THAYER,  
Solicitor of U. S. and Foreign  
PATENTS,  
No. 86 Astor House, New York.

Experience of Over 26 Years.

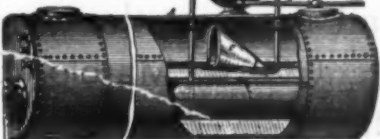


## IMPORTANT To Wharf Owners.

THE PATENT PILING PROTECTOR CO., BRUNSWICK, GA., is prepared to protect piling from the Tereedo and other Marine Pests in any Harbor in the United States, and will erect its plant, which is inexpensive, in any Harbor where a contract is offered, and prepare piling from the timber near at hand. The process is thoroughly effective, indestructible in salt water, and protection for ten years guaranteed. Is fully protected by letters patent. Has been tested for six years; is better than metal covering; as good and for piling in some respects better than creosoting; costs less than one-half as much as metal covering or creosoting. Circulars fully explaining process will be sent upon application. Correspondence solicited.

Address,  
C. P. GOODYEAR, President,  
BRUNSWICK, GEORGIA.

HOW TO KEEP BOILERS CLEAN  
And Prevent SCALING, FOAMING, BURNING  
Price \$75.00. Removes Lime Oil, Magnesia, without use of Comounds



Hotchkiss Mechanical Boiler Cleaner, Illustrated in an eighty-eight page book, which will be mailed FREE, to any address, by JAS. I. HOTCHKISS, 120 Liberty St., N. Y. Beware of Infringers

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Engines and Boilers, Mills of all kinds, Marine Railways, &c. Improved Clay Tempering Machinery, Steam or Horse Power. Phosphate Machinery, Crushers, Rollers, Mixers, &c., &c.  
40, 42 & 44 York Street,  
NEAR LIGHT, BALTIMORE.  
Repairing of all kinds promptly done.

## Norwalk Machine Works.

Sole Proprietors and Manufacturers of

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Which, for CLOSE REGULATION,  
UNIFORMITY OF SPEED, GOOD WORK-  
MANSHIP AND MATERIAL, ARE THE  
BEST MADE.

Also,  
Steam Engines

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Hoisting, Stone Sawing,  
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MACHINERY.

Write for Prices.

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## OTIS TUBULAR FEED WATER Heater and Purifier

Accomplishes more than is  
claimed for any  
OTHER HEATER.

WE GUARANTEE

ONE SQUARE FOOT

OR OVER OF

Heating Surface

Per Horse-Power

SIMPLE,

Easily Cleaned.

Thoroughly purifies the  
Water, separates and depos-  
its the impurities and boils  
the Feed Water before it en-  
ters the Boiler.  
Send for descriptive circular  
and prices.



Stewart Heater Co., BUFFALO, N. Y.

## Machinery and Engines, SECOND HAND AND NEW.

### ENGINES.

100 Horse Power, 16x30 Cylinder, Automatic Cut-Off, good as new, used only short time, very fine Engine and bargain.  
One new 200 Horse Power, 20x40, Automatic Cut-Off.  
One 15 Horse Power, Vertical.  
One 35 Horse Power, 8½x20, Armington & Simms, good as new.  
One each, 3, 5, 6, 8, 10 Horse Power Vertical Engines.

### ENGINE LATHES.

28 in. x 30 ft. bed.  
24 in. x 14 ft. bed. Aldridge.  
28 in. x 12 ft. bed. Lambert.  
20 in. x 8 ft. bed. Lambert.  
Several Small Lathes, 12 in., 14 in., 16 in. swing.

### PLANERS.

36 in. x 36 in. x 12 ft. Bement.  
40 in. x 20 ft., to mount on mason work.  
30 in. x 26 in. x 9 ft., Steel. Harridge.  
24 in. x 22 in. x 6 ft. Chamberlain.

### DRILL PRESSES.

One 25 in. Swing, self feed and back gear.  
Two 20 in. Swing, screw and lever feed.

Estimates on new machinery and shop outfits of all kinds. SHAFTING IN STOCK.

Pulleys, Hangers and Belting.

C. L. JACKSON & CO.

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## HUGH SISSON & SONS,

210 E. Baltimore St., bet. North & Calvert Sts.,  
BALTIMORE.

MANUFACTURERS OF

## Marble Monuments

Tombs, Altars, Counters,  
Furniture Slabs, Mantels, Tiles.

Estimates and Drawings Free.



# Florence, Ala.

## County Seat of Lauderdale County.

At Head of Navigation on Tennessee River, and at Foot of Muscle Shoals Canal,  
which will be open Jan. 1st, 1888.

**SITUATED** on a gently undulating Plateau, 200 feet above high-water mark, surrounded by three large creeks of pure free-stone water. It has a Court House, Two Colleges, Four Public Schools, Six Churches, beautiful wide streets, graded and graveled, and shaded with forest trees; Hotels, fine store houses, Masonic, Odd Fellows, K. of H. and L. of H. lodges. A population of 2,500—moral, social and hospitable.

❖ The Scenery on Every Side is Picturesque and Beautiful. ❖

SO MUCH SO THAT IT IS CALLED BY VISITORS

==== ❖ "FAIR FLORENCE." ❖ =====

There is no Place on the Continent more Healthful and Salubrious.

## ❖ MANUFACTURES. ❖

Within the last six months numerous manufactures have been located here, among the number:

Five Large Blast Furnaces.	One Saw Mill,	One Cotton Mill,	Two Brick Machines and
One Rolling Mill,	One Flour Mill,	One Cotton Compress and Ice	Three Hand-Brick Yards.
Three Planing Mills,	One Wooden-Ware Factory.	Factory.	

There are VAST BEDS OF IRON ORE within a few miles North and  
IMMENSE COAL FIELDS SOUTH

ACCESSIBLE BY RAILROADS NOW BEING RAPIDLY CONSTRUCTED.

By the 1st of January the Nashville & Florence Railroad will be completed, making three lines of railroad, and the river, thus opening up VAST AREAS OF TIMBER, IRON ORE, COAL, Marble, Limestone, Kaolin, Fire-Clay, and almost every kind of mineral and product.

THE LANDS IN THE SURROUNDING COUNTRY ARE FERTILE AND PRODUCTIVE.

*All kinds of Grain, Grasses and Fruits grow to perfection. Springs and Water Courses are numerous, and grazing for Cattle is abundant for eight months of the year.*

Pamphlets and maps furnished on application to

# Florence Land, Mining & Manufacturing Company.



# GADSDEN, ALA.

✱ *Reasons Why Capitalists and Manufacturers* ✱

SHOULD MAKE GADSDEN THE FIELD OF THEIR OPERATIONS.

GADSDEN is situated in the midst of the RICHEST MINERAL SECTION OF ALABAMA; is on the West bank of the Coosa River. This stream furnishes Cheap Transportation to the Coal Fields and Iron Veins and Beds that are found all along its banks.

The Sand Mountain, Lookout and Coosa Coal Fields are at our very doors. *This Coal Cokes equal to any Coal in the South.*

The immense forests that cover the mountain and plains, and all along the Coosa and along the five railroads running to Gadsden, will for ages furnish as **CHEAP CHARCOAL AS CAN BE HAD ANYWHERE ON THE CONTINENT.** Limestone is found all around the city,—so Gadsden has in as great abundance, and at small cost, all descriptions of

➤ **Rich Iron Ores, Fine Coking Coals, best class Charcoal, and Limestone for the quarrying.** ◀

And, as an Iron center, no place in the favored State of Alabama can compare with Gadsden, when we consider our Ore and Fuel supply, our abundant Water, our unequaled Climate, **UNINTERRUPTED HEALTH and FINE TRANSPORTATION FACILITIES.** We have the most **INVITING FIELD** to all seeking locations, either for manufacturing iron in any of its varieties, or for investment in any other industries. Gadsden has to day in successful operation the

## LARGEST CHARCOAL FURNACE IN THE STATE,

Has **Four Large Saw Mills**, with annual output of twenty million feet of the finest long-leaf Yellow Pine Lumber, three large Planing Mills, one Foundry and Machine Shop, two Gin and Flouring Mills, large Furniture, Sash and Door Factory, two Metallic Paint Mills, Ice Factory, a splendid system of Water Works, 80 pounds pressure, large steam Brick Works, and in course of construction a 100-ton Coke Furnace, being built by the Gadsden, Alabama, Furnace Co.; has stock subscribed for an additional Charcoal Furnace, has a National Bank, Cotton Compress, large Cotton Warehouse, handling 15,000 bales cotton, and a magnificent agricultural country all around us.

## ➤ The Gadsden Land and Improvement Company ◀

OWNS 3,000 LOTS,

And invites capitalists and manufacturers to come to Gadsden and see its advantages, pledging themselves to donate to any manufactory locating here, and working twenty-five men or more, **GROUND UPON WHICH TO LOCATE PLANT**, accessible to railroad or river. *Our Railroads afford transportation facilities equal to any point in the South.*

The Rome & Decatur gives close connections with the East Tennessee, Virginia & Georgia and Louisville & Nashville systems, the Anniston & Cincinnati with East Tennessee, Virginia & Georgia and Richmond & Danville, also the Alabama Great Southern Railroad; the Tennessee & Coosa Railroad with Alabama Great Southern, also the Tennessee River at Gunterville and the Central Railroad, when built, from Casselton to Decatur, making us on the short line from Kansas City and the West to Atlanta and the South Atlantic Coast.

## Lots are Sold on the Most Favorable Terms :

One-third CASH, balance in one and two years.

We have a population of over 4,000, good Schools, and Churches of all denominations; splendid system of Electric Lights, Telephone Communication over the city, also to Rome, Ga. Boats run regularly the year round on the Coosa, carrying U. S. mail and freights from this point to Rome, Ga., a distance by water of 154 miles.

FOR FURTHER PARTICULARS, ADDRESS SECRETARY OF

The Gadsden Land and Improvement Co., ◀ Gadsden, Ala.



# PITTSBURGH LOCOMOTIVE AND CAR WORKS,

PITTSBURGH, PA., Manufacturers of

Locomotive Engines for Broad or Narrow Gauge Roads,

From standard designs or according to specifications, to suit purchasers.

TANKS, LOCOMOTIVES OR STATIONARY BOILERS FURNISHED AT SHORT NOTICE.

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**Solid Cast Steel Hammers, Sledges, Mauls,**



RAILROAD TRACK TOOLS, &amp;c.

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Manufacturers of the Latest Improved Self-Adjusting ROLLER BUSHED and GENUINE METALINE BUSHED and Iron Bushed Rope and Iron Strapped

TACKLE BLOCKS.

CLASP OPEN.



Improved Self-Adjusting Roller Bushed Iron Sheave.

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STAR BRAND.

Improved Harcourt Patent Block.

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Improved Self-Locking Link Snatch Block.

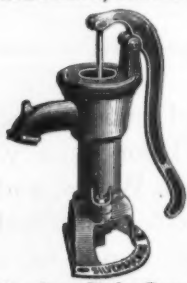
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 SALEM, OHIO.

Manufacturers of

CISTERN, WELL &amp; FORCE PUMPS

Iron and Brass  
CYLINDERS.

Wind Mill Pump and  
 Supplies.  
 Hand and Power  
 Rotary Pumps,  
 Boiler Feed Pumps,  
 Hydraulic Rams,  
 Garden Engines, &c.  
 Well Drillers' and  
 Well Drivers'  
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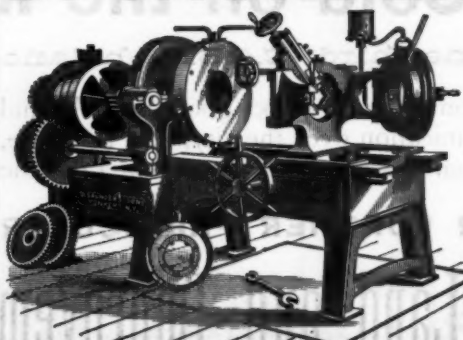
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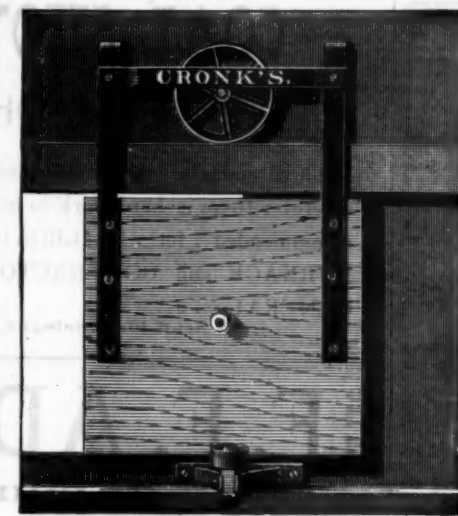
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**CHISELS.**  
Socket Framing, Crossmans..... dis 65%  
Socket Firmer, Crossmans..... No. 1. Extra.  
Socket Framing & Firmer..... 75%  
Socket, Douglass..... 75%  
Socket, Ohio Tool Co..... 75%  
Socket, Peck, Stone & Wilcox..... 75%  
Socket, Corner..... 75%  
Tanged Firmers, Douglass'..... dis 40% to 1%  
Tanged Firmers, Butcher's..... \$5.00 to 1%  
I. Merrill's Socket and Framing Chisel..... dis 65% to 1%  
**CLAMPS.**  
Iron, Screw, Eagle..... dis 50%  
Iron, Adjustable, Stearns'..... dis 40% to 1%  
Iron, Cabinet, Sargent's..... dis 65% to 1%  
Iron, Carriage maker's, Carr & Crawley..... dis 25%  
**CLIPS, AXLE.**  
Norway or Best..... dis 60% to 1%  
Superior..... dis 45% to 1%  
Conestoga..... dis 60% to 1%  
Coal Hods—Griffiths'..... dis 40%  
**COCKS, BRASS.**  
Racking, new list..... dis 55% to 1%  
Globe, new list..... dis 55% to 1%  
Plain Bibbs..... dis 55% to 1%  
Ais and Bear, new list..... dis 55% to 1%



Tinned andENAMELED.....	dis 35	5
Family, Howe's "Eureka".....	dis 40	5
Family, L. F. & C's "Handy".....	dis 40	10 5
GRINDSTONE PICTURES.		
Sargent's Patent.....	dis 70	10 5
Reining Hardware Co.....	dis 33	1/2 5
GUN WADES.		
Key's B. E. wads, 11 upwards.....	\$1.75	
" " " " 9 and 10.....	1.00	
" " " " 7 ".....	8.25	
" P. E. " 11 upwards.....	1.50	
" " " " 9 and 10.....	1.25	
" " " " 7 ".....	3.65	
HAMMERS.		
Maydole's.....	dis 25	5
Hartford Hammer Co.....	dis 40	10 5
Hammer, 1 1/2, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.....	30	
Warner & Noble's.....	dis 30	5
Kip's or Seisor's.....	dis 30	5
Yerkes & Plumb.....	dis 40	5
Hartford Hammer Co's New List—		
Hammers.....	dis 40	10 5
Sledge.....	dis 60	10 5
Mason and Spalling Hammers, &c.....	dis 60	10 5
HANDLES.—Door or Thumb Latches.		
Nos. .... 0 1 2 3 4		
Per doz. \$0.50 1.00 1.18 1.35 1.50.....	dis 60	10 5
Roggin's Latches.....	dis 35c.	@ 60c 10 5
Brass Iron Drop Latches.....	dis 70	@ 90c 10 5
Jan's Store Door Handles—Nuts, \$1.65; Plate, 1.10; no Plate.....	88c.	
Barn Door.....	dis 1.50,	dis 10 5
Wrought Chest.....	dis 55	& 10 5
Surface Chest.....	dis 55	& 10 5
Flush Chest.....	dis 55	& 10 5
Lifting.....	dis 50	& 10 5
Saw and Plane.....	dis 40	& 10 5
Spinnock Cross-Cut Saw.....	10c.	per pair
Hammer and Hatchet.....	dis 25	5
Brad Axl.....	dis 30	& 10 5
Chisel, all kinds.....	dis 50	& 10 5
Auger, assorted, gross, \$5.00.....	dis 40	5
Auger, large, gross, \$7.00.....	dis 40	5
Patent Auger, 1/2".....	dis 25	5
Patent Auger, Douglass'.....	set \$1.95	25 5
Patent Auger, Swan's.....	set 1.00	me
HAMMOCK CHAIRS.		
White Mountain, per doz.....	\$27.00	
Finished in red, per doz.....	\$23.00	
HANGERS.		
Cronk Hanger Co.—		
No. 4, per doz. pair.....	\$19.00,	50 & 10 5
" 3, " " ".....	14.40,	50 & 10 5
" 6, " " ".....	18.00,	50 & 10 5
Iron clad track.....	9 cents	per foot, 50 & 10 5
Barn door stays.....	\$3.00	per doz., 50 & 10 5
Anti-Friction Barn Door Hanger, per doz. pair, 8.50 net		
Cronk's Pat. Wire Cutter and Bender, 8 in., per doz. pair.....	\$13.00 & 40c	
Cronk's Pat. Wire Cutter and Bender, 10 in., per doz. pair.....	\$21.00 & 40c	
Barn Door, old pattern.....	dis 60	& 10 5
Barn Door, New England.....	dis 30.	50 & 10 5
Climax (Anti-Friction).....	dis 50	5
Warner's.....	dis 20	5
Richard's.....	dis 20	5
Ladder.....	dis 50	5
Maragon.....	dis. 4	to 40 & 10 5
Smith.....	dis 40	5
MATCHETS.		
Underhill's.....	dis 40	& 5
Price Solid Steel.....	\$6.00	net
Whirling, Nos. 1 & 3.....	dis \$7.35	\$8.00 \$8.75
law, Nos. 1 & 3.....	dis 7.75	\$8.00 9.25
athing, Nos. 1 & 3.....	dis 7.50	8.00 8.50
lammond's new list.....	dis 40	& 10 5
lood's.....	dis 35	5
lunt's.....	dis 40	5
lunt's, low list.....	dis 40	5
MAY KNIVES.		
Emmel's.....	dis 12	& 10 5
Lightning.....	dis \$18.00	net 20 5
Wadsworth's.....	dis 40	5
HINGES.		
late Hinges, \$1.00 10 12.....	3c.	10 5
Providence, 1 over 12.....	4c.	10 5
crew Hook \$1.00, 12 in.....	14c.	10 5
and Strap, 1 1/4 to 36 in.....	3c.	10 5
rown spring hinges, for screen doors, dis 60 5; for solid doors, single action, dis 45 5; for solid doors, double action, dis 55 5.		
rown Screen Door Latch.....	gross \$19,	dis 55 5
rown Christmas-Tree Holders, 6-inch, per doz; 3-inch, \$12.....	dis 50	5
ickford Portable Pump.....	each \$6,	dis 30 5
merican Cake Mixer, No. 6.....	each \$3.50,	dis 30 5
merican Tobacco Cutter.....	dis \$15,	dis 30 5
M. Co. Clothes Wringer, No. 8 rolls, 12x1 1/2, \$4; No. 9 Japan, \$1.00 doz.; No. 9 Galv., \$2.00 doz.; No. 2 Galv., \$3.00 doz.....	dis 20	5
Heavy Welded Hook { 10 in. \$7.50 100 lb. } dis 20 5		
14 in. & up, \$6.00 100 lb. } dis 20 5		
rew Hook & Strap Hinges, 14 in. and larger, 3c 10 lb. 12 in. and small, 4c 10 lb.		
rew Hook and Eye... { 1/2 & 1 in..... } dis 10 5		
{ 3/4 in..... } \$3.80 10 5		
{ 1 in..... } \$4.15 10 5		
{ 1 1/4 in..... } \$1.50 10 5		
rought Sash & T list, Dec. 20, '77.....	dis 65 & 82	
and 4 Spring Hinges, single and double action, dis. 60 & 10 5		









## SILVER PLATED WARE.

Wm. Rogers Manf. Co. ....dis 50¢ to 75¢  
Holmes, Booth & Hayden .....dis 50¢ to 75¢  
Wallace's Steel Silver Plated.....dis 33 1/2¢ to 50¢  
Rogers Bros 1847.....dis 50¢ to 75¢  
L. Rogers & Bro. ....dis 50¢ to 75¢

## SCREENS.

Standard new list, Feb. 25.  
Flat Head Bright.....dis 70¢  
Round Head Bright.....dis 65¢  
Round Head Brass.....dis 65¢  
Flat Head Brass.....dis 65¢  
Round Head Brass.....dis 65¢  
Flat Head Blue (add 5¢ to net).....dis 70¢  
Brass and Silver Capped.....dis 40¢  
Japanned Flat Head.....dis 65¢  
Coach, Patent Gimlet Point.....dis 66 1/2¢  
Coach, Common or Lag.....dis 70¢  
Bed.....dis 25¢  
Machine, Flat Head, Iron.....dis 55¢  
Machine, Round Head, Iron.....dis 55¢  
Bench, Iron.....dis 55¢  
Bench, Wood, Beach.....dis 25¢  
Bench, Wood, Hickory.....dis 25¢  
Hand, Wood.....dis 25¢  
Hand Rail, Sargent's.....dis 40¢  
Hand Rail, Humason, Beckley & Co.'s.....dis 40¢  
Hand Rail, Am. Screw Co., list Jan. 1, '81.....dis 70¢  
Jack (Wilson's).....dis 25¢

## SCREEN FRAMES AND FIXTURES.

Standard Window Screens No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 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617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 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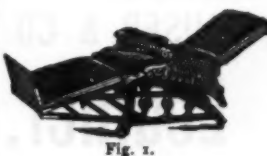


Fig. 1.



Fig. 2.



Fig. 3.

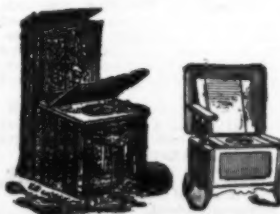


Fig. 4.



Fig. 5.

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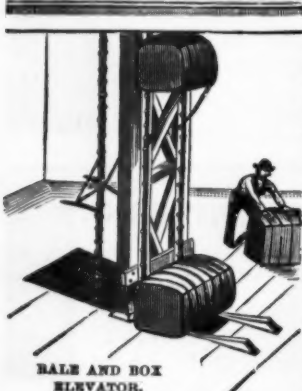
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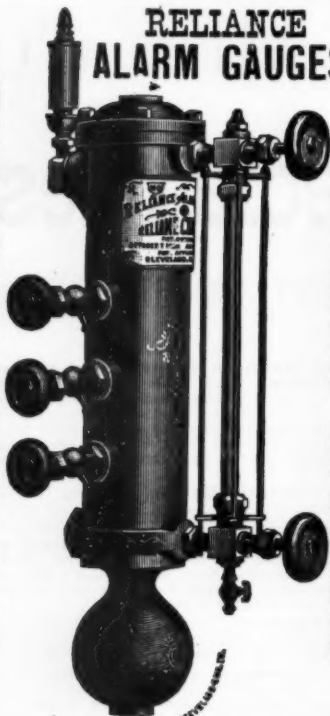
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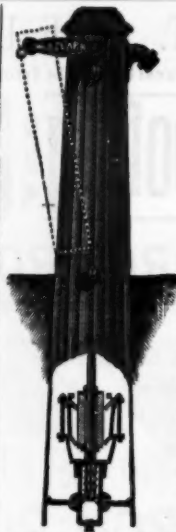
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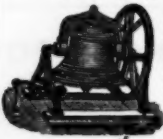
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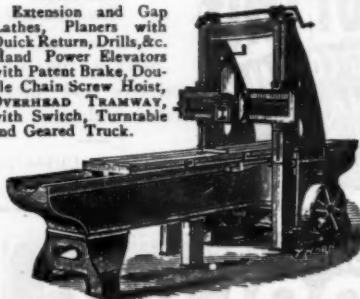
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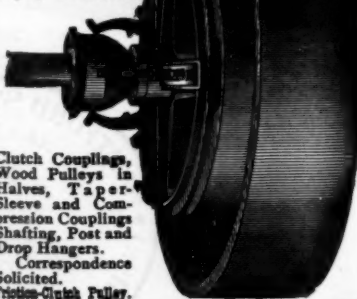
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Incorporated under the Laws of New York.

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This company is the pioneer in throwing down the bars of unjust discrimination against women in life insurance. Statistics and common observation prove mortality to be in favor of females at every age, and married as well as single. To remove this prejudice, and to secure to women an equal estimation in her insurability, the promoters of this enterprise have devoted themselves. Consistently with this principle WOMEN AND MEN are equally insured in this company without discrimination on account of sex.

ITS MEMBERSHIP  
comprises persons between the ages of 18 and 40, of approved physical condition. The Life Class is separate and distinct from the Accident Class, members being liable for losses only occurring in the class to which they belong.

ITS PLAN  
secures insurance at cost, and embraces the best features of similar associations, with such improvements added as enlightened experience has shown to be desirable for the member's advantage and the security of the association.

ITS SAFETY AND SECURITY  
consists in its ECONOMIC system, its IMPOSSIBILITY of insolvency, and its SECURITY RESERVE FUND.

FINALLY.  
This company avoids complicated schemes and plans by means of which impossible results are promised. Its contracts are plain, easily fulfilled and liberal. It issues the following terms:

1. Ordinary Life Policy, \$100 to \$10,000.
2. Ordinary Accident Policy, \$5,000 death indemnity; \$35 weekly.
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4. \$500 Savings Bond.

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The officers would be pleased to furnish any further particulars which may be desired in relation to the Company's affairs, or the way to obtain a policy.

Agents are desired in every city, village and district throughout the healthful sections of the country.  
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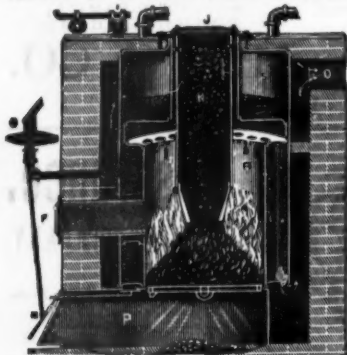
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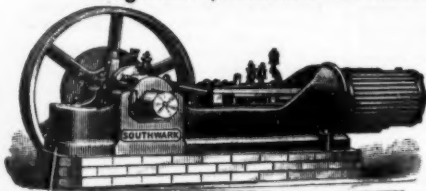
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the most important distributing point of the South, which re-wholesales goods bought in the North, proposes to make hereafter these goods on her own soil.

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with a capital stock of \$700,000, Gen. Willard Warner, President. This company is erecting two 50-ton Charcoal Blast Furnaces and Charcoal and Chemical Works, covering the treatment of 80,000 cords of wood annually.

Besides the industries located at West Nashville, we invite the establishment of Rolling Mills, Steel Plants, Boiler and Machine Shops, Nail and Horse-Shoe Plants, Plow and Wagon Factories, Planing Mills, Cotton and Woolen Mills, Boot and Shoe Shops and other industries.

For circulars, pamphlets and other information address

**J. M. REILLY, Secretary,**

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# The Brunswick Lands Improvement & Colonization Co.

Subscription Books for the Capital Stock of this Company are now open

At the Offices of the Company, Brunswick, Ga., and at (Room 20) 229 Broadway, N. Y.; (Room 4) 85 Devonshire Street, Boston, Mass., and other Branch Offices of the Company until the 1st day of August, 1887.

The Company is formed under and by virtue of a Charter granted June 19, 1886, to ANDREW J. ROGERS, JAMES M. OLMSTEAD, HENRY S. WELLES, DANIEL W. CLARK, GEORGE E. SMITH, JOHN E. SAUNDERS, and FREDERICK G. BRUNEL, and their associates, in accordance with the Laws of the State of Georgia, to run for twenty years, with the right of renewal, and authorizing a Capital Stock of \$100,000, in shares of \$50 each, with power to increase the same at any time to any amount not exceeding \$10,000,000, payable in either money, or real or personal property that may be utilized in the business of the Company. The Charter is, by comity of the States, made operative throughout the entire country.

## THE PRELIMINARY ORGANIZATION

Has been duly effected by electing the following named

### OFFICERS.

ANDREW J. ROGERS, Prest. JAMES M. OLMSTEAD, Vice-Prest. GEO. E. SMITH, Sec. FRED'K G. BRUNEL, Treas.

### DIRECTORS.

A. J. ROGERS, Brunswick, Ga., and 227 W. 10th St., New York. FREDERIC G. BRUNEL, Grand Union Hotel, New York.  
JAMES M. OLMSTEAD, 85 Devonshire St., Boston, Mass. JOHN E. SAUNDERS, Nashville, Tennessee.  
HENRY S. WELLES, 229 Broadway, New York. DANIEL W. CLARK, 11 Winthrop Street, Hartford, Conn.  
GEORGE E. SMITH, 32 Broadway, New York. WILLIAM B. BURROUGHS, Brunswick, Ga.

### EXECUTIVE COMMITTEE.

ANDREW J. ROGERS, HENRY S. WELLES, FREDERICK G. BRUNEL, WILLIAM B. BURROUGHS.

The said Officers and Directors to hold over until the First Meeting of the Stockholders.

## INCREASE OF THE CAPITAL STOCK

In order to promptly acquire ample areas of Land and Harbor Water frontage, for colonization, wharfing and other purposes, as well as obtaining sufficient funds for carrying out the several objects of the Company, the Directors have duly voted an increase of the Capital Stock from \$100,000 to \$3,000,000, payable in either money or in any real or personal property that may be utilized in the business of the Company, (as provided in the charter,) and have authorized the opening of Subscription Books for said \$3,000,000 of Capital Stock.

## EUROPEAN CO-OPERATION.

The President of the Company has perfected arrangements with competent European parties whereby they agree to subscribe, or cause to be subscribed, two-thirds of said \$3,000,000 of Capital Stock, provided the other one-third of said Stock is duly subscribed in America, and to pay in \$200,000 for every \$100,000 thereof that shall have been so subscribed in America and paid into the treasury of the Company.

## TRANS-ATLANTIC STEAMSHIP LINE.

The President of the Company has also arranged with competent European ship owners for promptly putting on and maintaining a Trans-Atlantic Steamship Line between the port of Brunswick, Ga., and ports in the United Kingdom; said line to comprise a fleet capable of doing all the trans-Atlantic shipping business of the Company, and to be put on as soon as the Company announces itself ready with freights, etc., for trans-Atlantic shipment.

## THE GENERAL ENTERPRISE

Comprises the building up and maintaining an extensive domestic and foreign trade at and through the city and port of Brunswick, Ga., and corresponding ports, and engaging in a general system of Lands Improvement, particularly including the building up, extending and beautifying the city and suburbs, and improving and perfecting the Harbor of Brunswick for maritime commerce, and generally aiding in developing the agricultural, mineral and other natural resources of, and settling the surrounding districts and corresponding sections of the interior, with the view to participating in the general benefits and increase in value of properties accruing from such developments and improvements, and to inaugurate and conduct

## BUREAUS OF COLONIZATION AND INDUSTRY

As special departments of the General enterprise for commercially engaging in such systems of Colonization and Co-operative Industries as will, from time to time, aid in relieving the Labor Markets of all surplus artisans and other workers, including the worthy, able-bodied indigent classes, by drawing them off and settling or aiding them in settling and getting fairly started on alternate lots of the Company's Lands, in suitable rural and growing village districts, or so employing or aiding them to find such suitable employment as will make them reciprocally useful to the Company and ensure their becoming self-sustaining and prosperous constituents of the commonwealth, and finally reimbursing the Company with fair profits for all such assistance, thus materially aiding in freeing society of its worthy, able-bodied, destitute and suffering industrious classes by reclaiming them from all anarchical tendencies, and thence through their own prosperity readjusting them as good, law-abiding and patriotic citizens of the Commonwealth.

## THE COMMERCIAL DEPARTMENT.

With the foregoing objects in view, the Company will engage in the following enterprises, taking them up and carrying them forward in such business order as will ensure the prosperity of every department of the General Undertakings, beginning with The Commercial Department proper, it being the only medium through which the more benevolent and humane purposes can be successfully carried into effect with profit to the Company. The Directors are already assured of a large paying business from the commencement of active operations in the following specified enterprises, in which the Company will be constantly turning over its funds and realizing from 5 per cent. upwards of net profits every sixty or ninety days. VIZ: A General

## TRANS-ATLANTIC and Coastwise SHIPPING BUSINESS

Including storing, wharfing and forwarding at and through said port and corresponding ports, and the sending of goods and other valuables through in bond or by through bills of lading to and from any and all points; the advancing of money on bills of lading and on goods and other property in store; and acting as merchants and general agents, and doing a banking and general commission business. In these departments alone the Company will find constant, active, safe and profitable employment for a considerable amount of its capital, thereby ensuring fair dividends from the start.

## OTHER SOURCES OF REVENUE.

By judicious purchases, both in respect to price and locality of lands, as well as the suitability of the climate, and thence properly settling immigrants on alternate

The Stock of the Company will be Receivable at Par in Payment for Lands purchased from the Company.

ANDREW J. ROGERS, Prest. B. L. I. & C. Co.

229 BROADWAY, (Room 20,) NEW YORK.

lots thereof, carefully reserving every alternate farm or section for sale later on, the Company could reasonably expect to realize from 10 to 25 per cent. net on sales of the first alternate farms or other lots, and thence, in future further realizing from 100 to 500 per cent. and upwards from the ultimate sales of the reserved building lots, farms or sections. This plan carried out on a commensurate scale would of itself, without risk of the capital invested, enrich any well-managed company.

## GENERAL LANDS IMPROVEMENT DEPARTMENT.

To buy, own and sell lands and deal in real estate and leaseholds generally, and to engage in a general system of Lands Improvement, particularly including the building up, extending and beautifying the City of Brunswick and Suburban districts, and generally developing and settling the surrounding country; the establishing and settling colonies in the interiors of the various States, and parts of States, wherein immigrant settlers and other industrial classes are needed; laying out and building up villages, towns, and cities; making roads, streets and all necessary and profitable improvements; aiding in the fuller development of the vast agricultural, mineral and other

## NATURAL RESOURCES OF THE SOUTH,

Southwest and corresponding sections; the breeding and rearing of horses, mules, cattle and live stock generally, for home and foreign markets; the laying out, improving, stocking and working farms of all kinds; developing water powers for manufacturing, milling and other purposes; opening and working coal, iron and other mines, and marble and stone quarries, with a view to making money by profitably employing the idle, and making homes and livings for the worthy, able-bodied indigent classes, as well as making the several properties productive and generally enhancing the values thereof and making them more saleable. In fact, the company offers

## SAFE AND PROFITABLE INVESTMENTS

In every department of the General Enterprise, basing the stability of the entire Capital Stock not only upon the General Business of the Company but upon real estate carefully chosen for its intrinsic worth, its suitability for the purposes of the Company and its improvable qualities and possible continual enhancement in value from direct and surrounding improvements.

## BRUNSWICK'S ADVANTAGES in Respect to DISTANCES.

The use of the port of Brunswick for shipping purposes, effects a saving of distances to and from the following named cities as compared with New York, as follows: Louisville, about 125 miles; Denver, 250; Chicago, 260; St. Louis, 275; Kansas City, 300; Chattanooga, 450; Memphis, 475; Nashville, 500; San Francisco, 505; Santa Fe, 579; Tepic, 640; Mexico, 640; Atlanta, 667; Augusta, 687; Galveston, 700; Austin, 775; Fort Worth, 790; Montgomery, 837; New Orleans, 916; San Diego, 1,160 miles. This statement is of no less importance to emigrants than to shippers of merchandise. It should also be borne in mind that Brunswick is, by ocean route, very much nearer Liverpool than is either New Orleans or Galveston, and has the further advantage of being free from the risks always to be incurred in rounding the Florida Reefs, and the consequent heavy insurance.

## THESE SEVERAL ADVANTAGES

In respect to distances, together with the central position and superiority of the harbor, and the widely extending railway connections, must necessarily ensure to the port of Brunswick a very large proportion of the export trade and corresponding import trade of the South, Southwest and Pacific Slope, especially as this port will thenceforward have such direct and regular Trans-Atlantic connections with foreign markets, as well as such improved facilities for discharging and loading ships, as will enable it to successfully compete with other and older ports.

For a fuller statement of the PURPOSES and PLANS of the Company, see the Charter and Prospectuses, Documents Nos. 1, 2 and 3 of the Company's pamphlets, which can be obtained at the Offices of the Agents, or from any of the Officers of the Company.

## FORMS OF APPLICATION

For Stock on the part of those who may desire to subscribe to the Capital Stock, but are unable to reach the Agent or Officer in charge of the Subscription Books, will, on application in writing to such Agent or Officer, or to the President of the Company, be forwarded, together with the necessary instructions for securing the number of Shares such Applicant may desire or that may be allotted to him or her.

## PROPOSALS FOR TRANSFERRING LANDS

Or other available property in exchange for Stock in the Company will be entertained, and the suitability, quality and value of the property and titles thereto will be duly examined by proper experts in the interest of the Company; but all such proposals must be submitted in writing to an Agent or Officer, or to the President of the Company on or before the 1st day of August next, and must be accompanied with a full description, giving all particulars, including the situation and value of such property.



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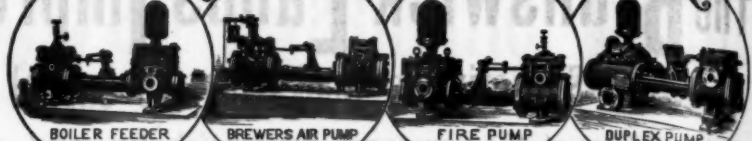
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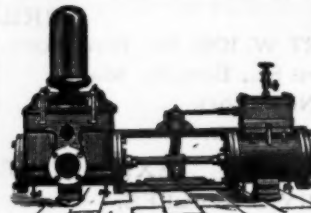
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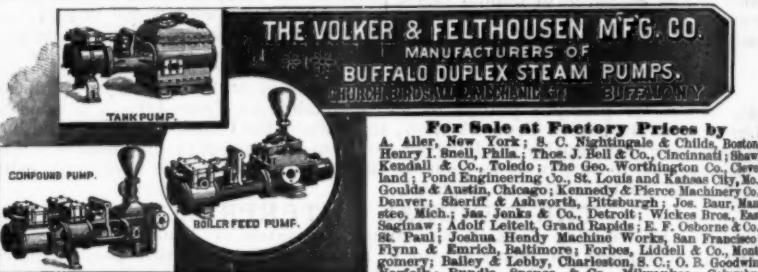


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Newberry Cotton Mills, Newberry, S.C., 450  
Ponce de Leon Hotel, St. Augustine, Fla., 416  
Gadsden Furnace Co., Gadsden, Ala., 624  
Tennessee Coal, Iron & Railroad Co.,  
South Pittsburgh, Tenn., 624  
Senate Wing, U. S. Capitol, Wash-  
ington, D. C., 318  
Wise Brothers, Baltimore, Md., 102  
Alabama & Tennessee Coal and Iron Co.,  
Sheffield, Ala., 1,878  
Hannis Distilling Co., Baltimore, Md., 420  
F. & H. Fries, Salem, N. C., 250  
Jno. Crossley & Sons, Southwood Plan-  
tation, La., 1,510  
Louisiana Sugar Refining Co., New Or-  
leans, La., 960

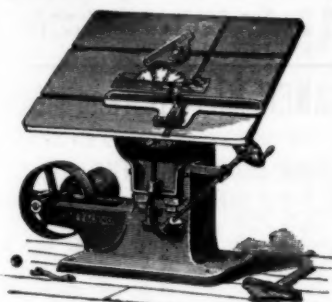
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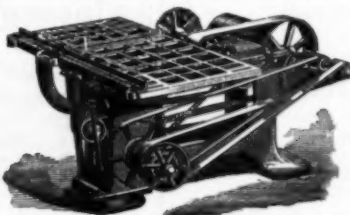
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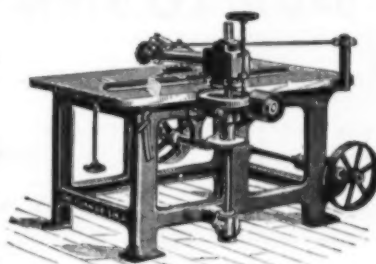
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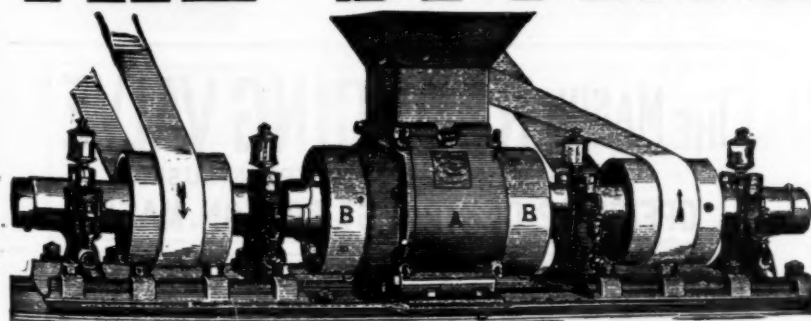
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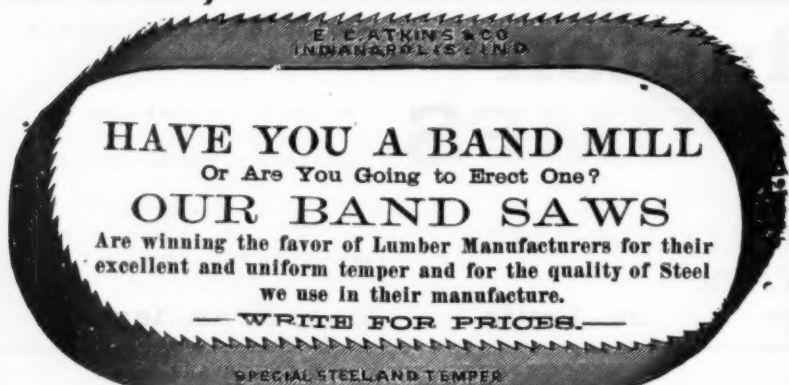
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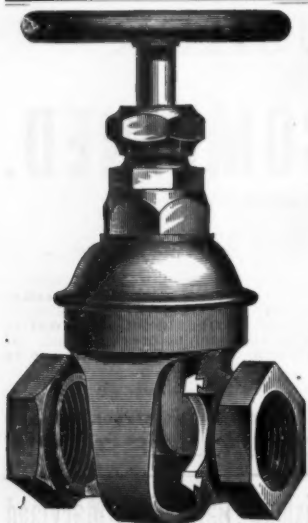
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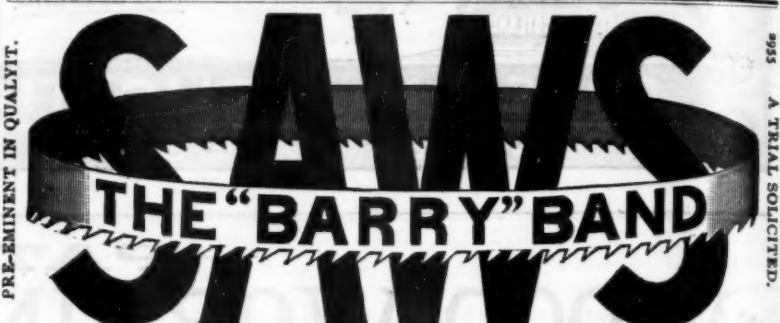
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